

Blow-off Check valve G1/8"



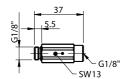
- ➤ Prevents vacuum from being pulled through the blow-off lines, which means faster response time and completely independent vacuum units.
- Reliable quick-release function even in larger systems with several units, due to the very low feed pressure required to break away for blowoff
- ➤ Suitable in applications where cleaning of the suction cup filters or cooling of the object to be picked is important.

Technical data

Description	Unit	Value
Feed pressure, range	MPa	0.3–0.7
Feed pressure, minimum to break away for blow-off	MPa	0.1
Material		AL, CuZn, SS, NBR
Temperature range	°C	-10–80
Weight	g	12.4
Flow, rate @ 0.3-0.7 MPa	NI/s	1.5–2.8
Connection, compressed air		G1/8"
Connection, vacuum		G1/8"
Dimension, WxDxH	mm	14x14x31,5

Description	Art. No.
Blow-off Check valve G1/8"	0115314







AQR 02 (Atmospheric Quick-Release Valve)



- ► Equalises pressure in the suction cups to provide fast release of the product.
- ► Extra fast release by accumulating and utilising the feed-air pressure as a boost.
- ➤ ON/OFF activated simultaneously with the ejector.
- No additional controls required use a single 3/2 control valve for the ejector and AQR 02.

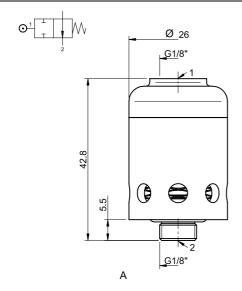
Technical data

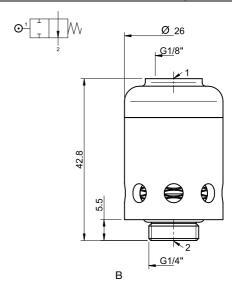
Description	Unit	Value
Feed pressure, range	MPa	0.3–0.7
Material		AI, SS, NBR
Temperature range	°C	0–50
Weight	g	47
Connection, compressed air		G1/8"
Dimension, WxDxH	mm	26x26x37,3

Technical data, specific

Description	Unit	Value	
		0119721	0119720
Connection, vacuum		G1/8"	G1/4"
Flow, atmospheric	NI/s	3.85	7.85

	Description	Art. No.
Α	Atmospheric quick-release valve – AQR 0207, G1/8"	0119721
В	Atmospheric quick-release valve – AQR 0210, G1/4"	0119720







AQR (Atmospheric Quick-Release Valve)



- ▶ Equalises pressure in vacuum gripper systems to provide fast release of product.
- ► Consumes no additional compressed air.
- ➤ ON/OFF activated simultaneously with the ejector.
- No additional controls required use a single 3/2 control valve for the ejector and AQR.
- ➤ Optional with fitting kit containing straight connector G1/8" and nylon tube.

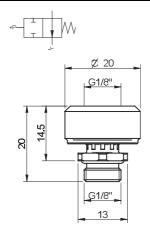
Technical data

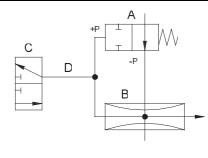
Description	Unit	Value
Feed pressure, range	MPa	0.3-0.7
Temperature range	°C	10–50
Connection, compressed air		G1/8"
Connection, vacuum		G1/8"
Flow, atmospheric	NI/s	3.3
Dimension, WxDxH	mm	20x20x14,5

Technical data, specific

Description	Unit	Value	
		0111236	0117156
Material		CuZn, PUR, NBR	CuZn, NBR, Ni, PA, PUR, SS
Weight	g	20	36

Description	Art. No.
Atmospheric quick-release valve – AQR	0111236
Atmospheric quick-release valve – AQR, including fitting kit	0117156





A=AQR, B=Vacuum pump, C=Control valve, D=Rec. max. 1.5m



QR (Quick-Release valve)



- For vacuum pump P3010.
- Quick release by accumulating and utilising the feed-air pressure as a boost.
- ► ON/OFF activated simultaneously with the P3010
- ► Three sizes for optimising release volume with system volume.

Technical data

Description	Unit	Value
Feed pressure, max.	MPa	0.7
Material		AI, SS,PPS, NBR, PA
Temperature range	°C	-10–50
Volume, Quick-Release	cm³	3

For dimensions, please go to data sheet for vacuum pump P3010.

Ordering information

Description
Available in product configuration, please go to data sheet for vacuum pump P3010.

Technical data, accessories

Description	Unit	Valu	Value	
		0104272	0104273	
Weight	g	72	118	
Volume, Quick-Release tank	cm ³	30	60	
Dimension, WxDxH	mm	57,5x16x52	120x16x52	

Ordering information, accessories

Description	Art. No.
Quick-Release tank module P3010, 30 cm ³	0104272
Quick-Release tank module P3010, 60 cm ³	0104273



Solenoid valve DS 23



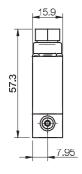
- ▶ Electric 3/2 valve with manual override.
- Quick and easy mounting with push-in connections.
- ▶ Body with 3 M5 ports.
- ► Suitable for compressed air, filtration 40μ.

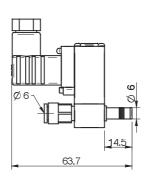
Technical data

Description	Unit	Value
Feed pressure, range	MPa	0.2-0.7
Material		Ni, Al, SS, POM, CuZn, NBR
Temperature range	°C	-18–50
Weight	g	100
Connection, compressed air	mm	2 x Ø6
Voltage	VDC	24 (22-28)
Safety classification		IP65
Current consumption	mA	100
Display		LED indicator
Flow @ P₁=6 bar and ∆p=1 bar	NI/s	1.3
Life span, mechanical	cycles	100,000,000
Ratings, load time	%	100
Electrical connection		DIN (c)
Dimension, WxDxH	mm	49,7x15,9x57,3

Description	Art. No.
Solenoid valve DS 23 for control ON/OFF	0104274









Electrically controlled 2/2 valves DIP 55



- ▶ On/off valve
- ▶ 1/8" NPSF ports
- ▶ 0.6 W solenoid
- ► Electrical connections: plug-in contacts and DIN (c)
- Suitable for PIAB vacuum pumps up to Classic size.
- ► Manual override

Technical data

Description	Unit	Value
Feed pressure, range	MPa	0.4-0.7 MPa
Material		PPS, PA, TPU, AI, NBR, CuZn, PUR
Temperature range	°C	0–60
Weight	g	102
Connection compressed air		2 x NPSF 1/8"
Function		NC
Supply voltage	VDC	24
Display		LED
Flow, nominal	NI/s	8.6
Kv		7.8
Lifespan, mechanical	cycles	10,000,000
Power consumption	W	0.6
Load time rating	%	100
Bore-through diameter, nominal	mm	3.7

Electrical connections are included.

Compressed air, filtration $40\mu m$, non-lubricated.

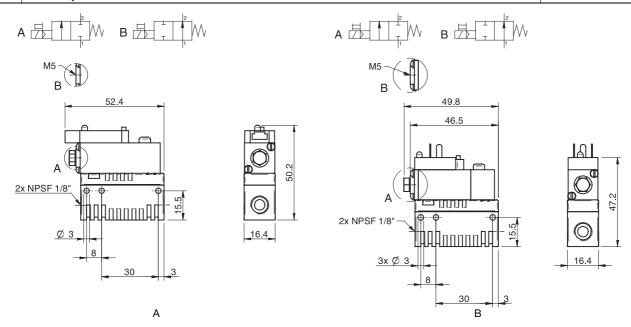
Technical data, specific

Description	Value								
	0101016 DIP 55 NC 2406SE	0101071 DIP55 NC 2406 SD	0101017 DIP 55 NO 2406 SE	0101072 DIP 55 NO 2406 SD					
Electrical connection	Plug-in connection *	DIN (c) *	Plug-in connection *	DIN (c) *					
Safety specification	_	IP65	_	IP65					

^{*)} Electrical connections are included. * Electrical connections are to be ordered separately.



	Description	Art. No.
Α	Electrically controlled 2/2 valve DIP55 NC 2406 SE	0101016
Α	Electrically controlled 2/2 valve DIP55 NO 2406 SE	0101017
В	Electrically controlled 2/2 valve DIP55 NC 2406 SD	0101071
В	Electrically controlled 2/2 valve DIP55 NO 2406 SD	0101072





Vacuum Check Valve VT1



- ► Check valve that traps vacuum in sealed applications for safe operation.
- Built-in blow off check valve for fast release of object.
- ▶ Optional two-stage COAX® cartridge MINI Pi12-2 integrated.
- Optional integrated energy-saving device, Vacustat results in virtually no air consumption in sealed applications.

Technical data

Description	Unit	Value
Feed pressure, max.	MPa	0.7
Feed pressure, min. breakaway blow-off	MPa	0.25
Material		Al, Steel, Ceramic

Technical data, specific

Description	Unit		Value	
		0109233/0121236	0110456/0121237	0120323/0121238
Weight	g	272	390	650
Temperature range	°C	-30-70	-10-80	-10-80
Noise level	dBA	_	66-68	66-68
Signal	-kPa	_	_	65
Function		_	_	2/2 NO
Hysteresis	kPa	_	_	8
Vacuum flow, max.	NI/s	_	0.68	0.68

Vacuum flow

Feed pressure	Air consumption		Vacuum flow (NI/s) at different vacuum levels (-kPa)								Max vacuum
MPa	NI/s	0	10	20	30	40	50	60	70	80	-kPa
0.17	0.29	0.57	0.40	0.22	0.15	0.070	_	_	_	_	49
0.22	0.34	0.64	0.48	0.29	0.20	0.14	0.080	0.020	_	_	64
0.314	0.44	0.68	0.60	0.44	0.27	0.19	0.14	0.10	0.060	0.030	90
0.40	0.53	0.66	0.60	0.52	0.39	0.24	0.12	0.10	0.060	0.020	84

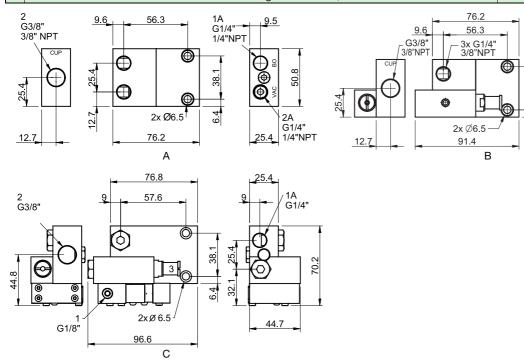
Evacuation time

Feed pressure	Air consumption	Evac	uation ti	-kPa)	Max vacuum					
MPa	NI/s	10	20	30	40	50	60	70	80	-kPa
0.17	0.29	0.28	0.56	1.13	2.13	_	_	_	_	49
0.22	0.34	0.20	0.42	0.85	1.5	2.3	3.0	_	_	64
0.314	0.44	0.17	0.32	0.58	1.1	1.8	2.7	4.0	6.4	90
0.40	0.53	0.18	0.33	0.54	0.85	1.5	2.5	3.8	7.1	84



12.7

	Description	PMAT No.	Art. No.
Α	Vacuum Check Valve VT1 G3/8"-G1/4"	X1000	0109233
Α	Vacuum Check Valve VT1 3/8"NPT-1/4"NPT	1000	0121236
В	Vacuum Check Valve VT1 COAX® cartridge MINI Pi12-2, non-return valve G3/8"-G1/4"	X1041	0110456
В	Vacuum Check Valve VT1 COAX® cartridge MINI Pi12-2, 3/8"NPT-1/4"NPT	1041	0121237
С	Vacuum Check Valve VT1 Vacustat COAX® cartridge MINI Pi12-2, G3/8"-G1/4"	X2098	0120323





CU (Control Unit) P3010, P5010 & P6010



- ▶ For vacuum pumps P3010, P5010 and P6010.
- ► CU with electric valves for vacuum on/off and blow-off.
- ▶ Mechanical valve for blow-off flow adjustment.
- ➤ Special M12 4-pin cable assembly with LED for status of valve signal.

Technical data

Description	Unit	Value
Feed pressure, max.	MPa	0.7
Material		PA, NBR, AI, SS, PMMA
Temperature range	°C	0–50
Function, on/off		NC
Voltage	VDC	24 (22–28)
Safety classification		IP65 [NEMA 4]
Humidity	%RH	90
Current consumption	mA	60
Ripple, max.	V_{rms}	1
Electric connection		M 12 4-pin

For dimensions, please go to data sheet for vacuum pumps P3010, P5010 and P6010.

Technical data, specific

Description	Unit		Value	
		P3010	P5010	P6010
Flow, blow-off @ P_1 =6 bar and Δp =0.5 bar	NI/s	0–7.5	0–7.5	0–7.5

Ordering information

Description
Available in product configuration, please go to data sheet for vacuum pumps P3010, P5010 and P6010.

Ordering information, accessories

Description	Art. No.
Cable M12 4-pin female, LED indicator, PUR, L=5m	0118013