

Bi03-2



- ▶ Two-stage COAX® cartridge - MICRO - probably the world's smallest multistage vacuum ejector.
- ▶ Vacuum level to 83 -kPa at extremely low feed pressure.
- ▶ High operational reliability in case of fluctuating or low compressed-air pressure.
- ▶ The low weight makes it suitable to integrate close to the suction point in high speed pick-and-place applications of small objects.
- ▶ Suitable for handling sealed objects.

Technical data

Description	Unit	Value
Feed pressure, max.	MPa	0.7
Temperature range	°C	-10-80
Weight	g	1.5-2.3
Material		Al, NBR, PA, SS

Vacuum flow

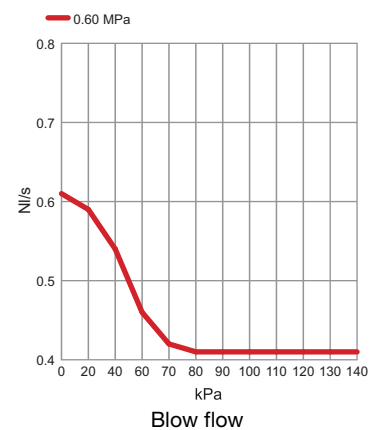
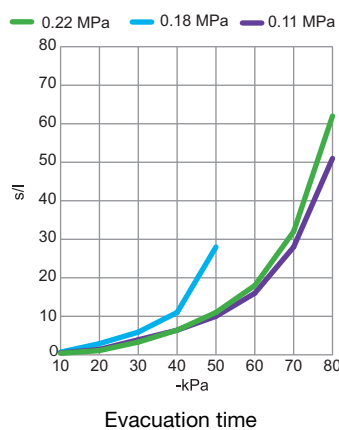
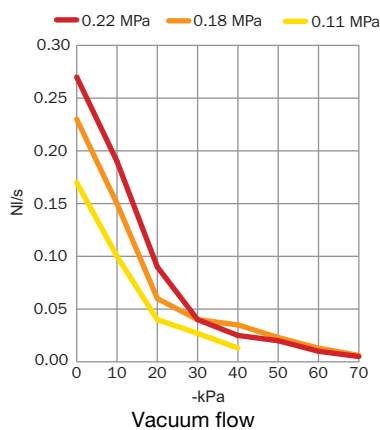
Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)								Max vacuum -kPa
		0	10	20	30	40	50	60	70	
0.11	0.10	0.17	0.10	0.040	0.027	0.013	—	—	—	50
0.18	0.14	0.23	0.15	0.060	0.040	0.035	0.023	0.013	0.0060	83
0.22	0.17	0.27	0.19	0.090	0.040	0.025	0.020	0.010	0.0050	82

Evacuation time

Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)								Max vacuum -kPa
		10	20	30	40	50	60	70	80	
0.11	0.10	0.70	2.9	5.9	11.0	28.0	—	—	—	50
0.18	0.14	0.50	1.4	3.9	6.4	10.0	16.0	28.0	51.0	83
0.22	0.17	0.40	1.1	3.3	6.4	11.0	18.0	32.0	62.0	82

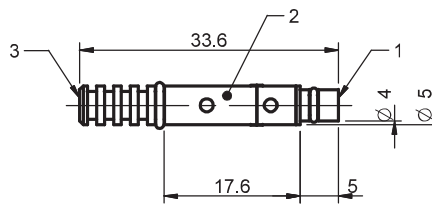
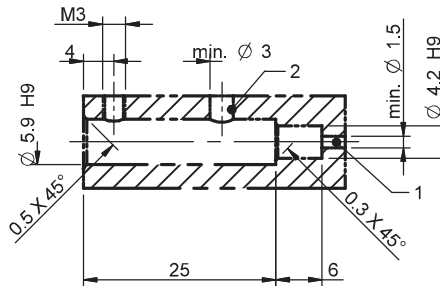
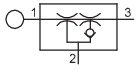
Blow flow

Feed pressure MPa	Air consumption NI/s	Blow flow (NI/s) at different pressure levels (kPa)												Max pressure kPa
		0	20	40	60	70	80	90	100	110	120	130	140	
0.6	0.37	0.61	0.59	0.54	0.46	0.42	0.41	0.41	0.41	0.41	0.41	0.41	0.41	140

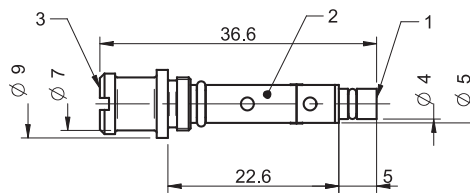
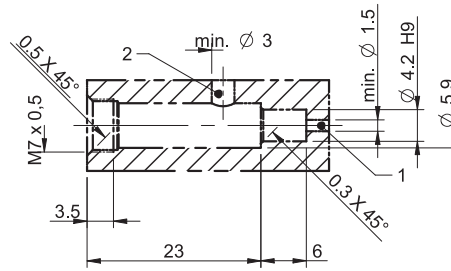
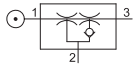


Ordering information

	Description	Art. No.
A	COAX® cartridge MICRO Bi03-2	0106966
B	COAX® cartridge MICRO Bi03-2, holding cap	0106968



A



B

COAX® MICRO

Bi03-2 ozone resistant



- ▶ Two-stage COAX® cartridge - MICRO - probably the world's smallest multistage vacuum ejector.
- ▶ Vacuum level to 83 -kPa at extremely low feed pressure.
- ▶ High operational reliability in case of fluctuating or low compressed-air pressure.
- ▶ The low weight makes it suitable to integrate close to the suction point in high speed pick-and-place applications of small objects.
- ▶ Suitable for handling sealed objects.
- ▶ Available with ozone resistant flap valve and sealing material, suitable for electronic and semiconductor applications

Technical data

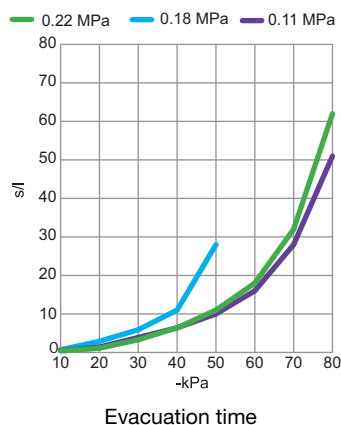
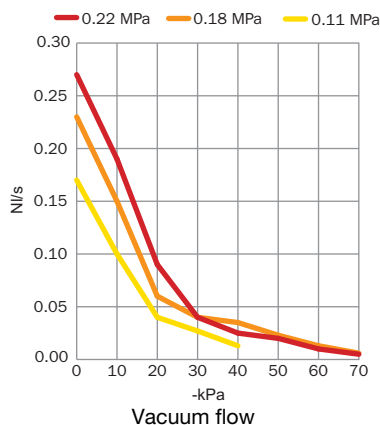
Description	Unit	Value
Feed pressure, max.	MPa	0.7
Temperature range	°C	-10-80
Weight	g	1.5-2.3
Material		Al, EPDM, PA, SS

Vacuum flow

Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)								Max vacuum -kPa
		0	10	20	30	40	50	60	70	
0.11	0.10	0.17	0.10	0.040	0.027	0.013	—	—	—	50
0.18	0.14	0.23	0.15	0.060	0.040	0.035	0.023	0.013	0.0060	83
0.22	0.17	0.27	0.19	0.090	0.040	0.025	0.020	0.010	0.0050	82

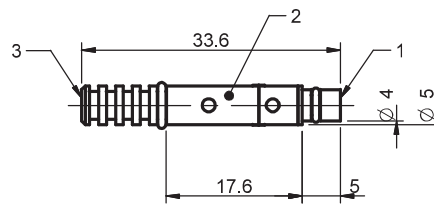
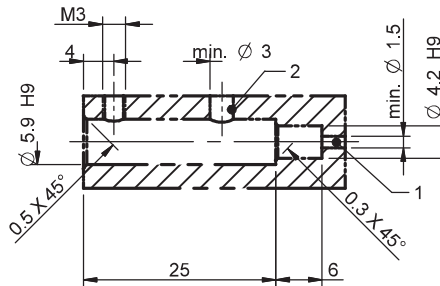
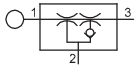
Evacuation time

Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)								Max vacuum -kPa
		10	20	30	40	50	60	70	80	
0.11	0.10	0.70	2.9	5.9	11.0	28.0	—	—	—	50
0.18	0.14	0.50	1.4	3.9	6.4	10.0	16.0	28.0	51.0	83
0.22	0.17	0.40	1.1	3.3	6.4	11.0	18.0	32.0	62.0	82

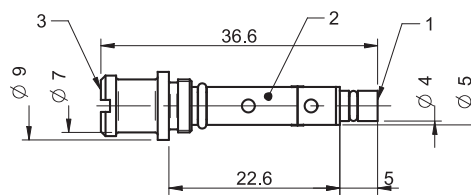
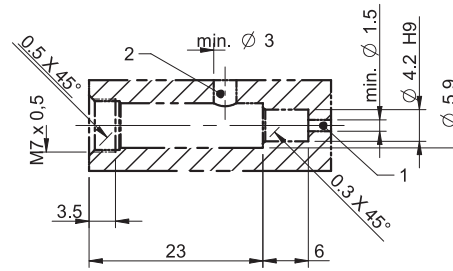
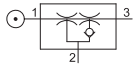


Ordering information

	Description	Art. No.
A	COAX® cartridge MICRO Bi 03-2, ozone resistant	0110015
B	COAX® cartridge MICRO Bi 03-2, ozone resistant, holding cap	0125793



A



B

COAX® MICRO

Si02-2



- ▶ Two-stage COAX® cartridge - MICRO - probably the world's smallest multistage vacuum ejector.
- ▶ Large vacuum flow in relation to energy consumption.
- ▶ Good for handling porous materials or if surface leakage is present.
- ▶ The low weight makes it suitable to integrate close to the suction point in high speed pick-and-place applications of small objects.

Technical data

Description	Unit	Value
Feed pressure, max.	MPa	0.7
Temperature range	°C	-10-80
Weight	g	1.5-2.3
Material		Al, NBR, PA, SS

Vacuum flow

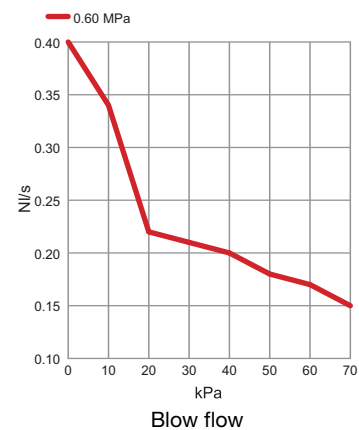
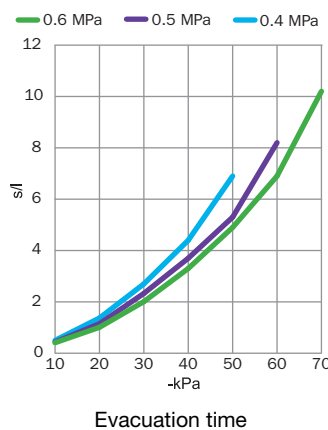
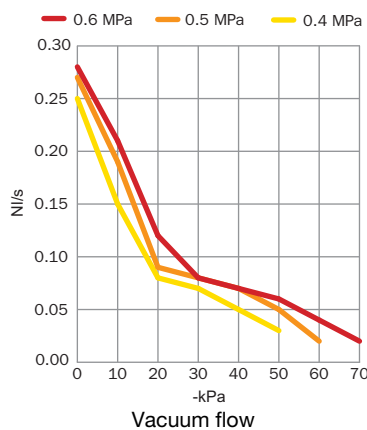
Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)								Max vacuum -kPa
		0	10	20	30	40	50	60	70	
0.4	0.09	0.25	0.15	0.08	0.07	0.05	0.03	—	—	60
0.5	0.10	0.27	0.19	0.09	0.08	0.07	0.05	0.02	—	70
0.6	0.12	0.28	0.21	0.12	0.08	0.07	0.06	0.04	0.02	75

Evacuation time

Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)								Max vacuum -kPa
		10	20	30	40	50	60	70		
0.4	0.09	0.50	1.37	2.70	4.40	6.90	—	—	60	
0.5	0.10	0.43	1.15	2.33	3.70	5.30	8.20	—	70	
0.6	0.12	0.41	1.01	2.01	3.30	4.90	6.90	10.2	75	

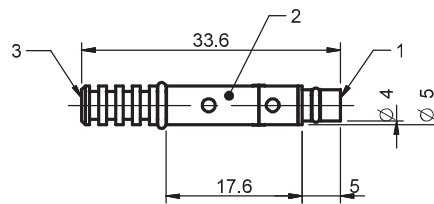
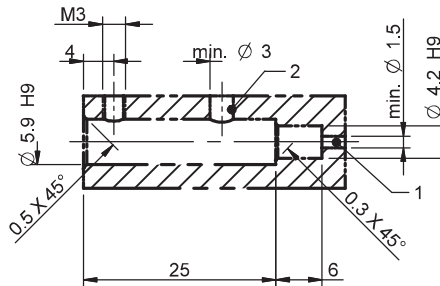
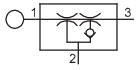
Blow flow

Feed pressure MPa	Air consumption NI/s	Blow flow (NI/s) at different pressure levels (kPa)								Max pressure kPa
		0	10	20	30	40	50	60	70	
0.6	0.12	0.40	0.34	0.22	0.21	0.20	0.18	0.17	0.15	70

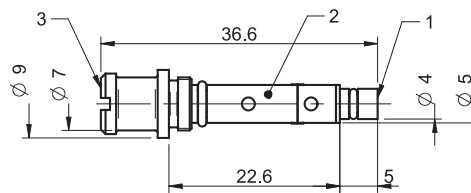
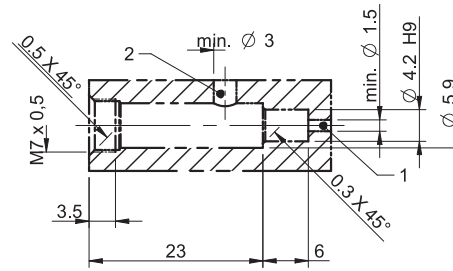
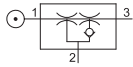


Ordering information

	Description	Art. No.
A	COAX® cartridge MICRO Si02-2	0113591
B	COAX® cartridge MICRO Si02-2, holding cap	0113593



A



B

COAX® MICRO

Ti05-2



- ▶ Two-stage COAX® cartridge - MICRO - probably the world's smallest multistage vacuum ejector.
- ▶ Larger flow and evacuation capacity vs. the other MICRO cartridges.
- ▶ The low weight makes it suitable to integrate close to the suction point in high speed pick-and-place applications of small objects.
- ▶ Dirt tolerant cartridge design .
- ▶ Suitable for leaking objects at 0.6MPa feed pressure and sealed objects at 0.4 MPa feed pressure.

Technical data

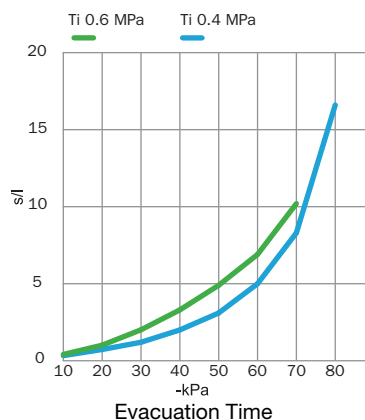
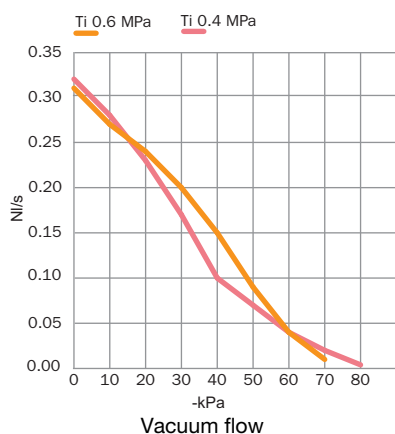
Description	Unit	Value
Feed pressure, max.	MPa	0.7
Temperature range	°C	-10-80
Weight	g	1.5-2.3
Material		Al, NBR, PA, SS

Vacuum flow

Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)										Max vacuum -kPa
		0	10	20	30	40	50	60	70	80		
0.4	0.27	0.32	0.28	0.23	0.17	0.10	0.07	0.04	0.02	0.004	84	
0.6	0.37	0.31	0.27	0.24	0.20	0.15	0.09	0.04	0.01	-	75	

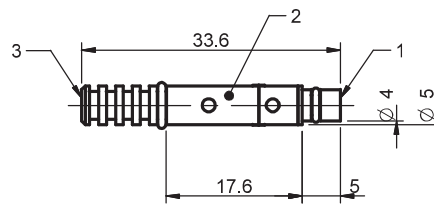
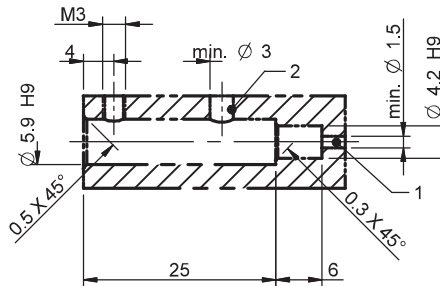
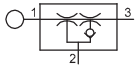
Evacuation time

Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)									Max vacuum -kPa
		10	20	30	40	50	60	70	80		
0.4	0.27	0.33	0.73	1.20	2.00	3.10	5.00	8.30	16.6	84	
0.6	0.37	0.30	0.70	1.20	1.80	2.60	4.20	8.43	-	75	

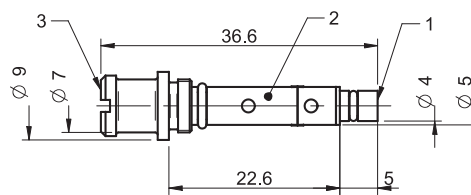
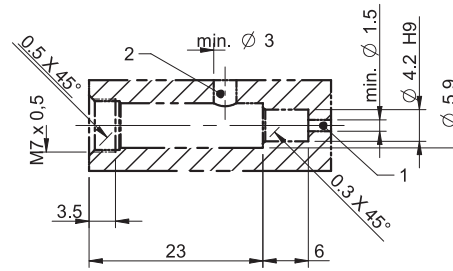
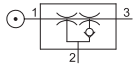


Ordering information

	Description	Art. No.
A	COAX® cartridge MICRO Ti05-2	0123098
B	COAX® cartridge MICRO Ti05-2, holding cap	0125794



A



B

COAX® MICRO

Xi2.5-2



- ▶ Two-stage COAX® cartridge - MICRO - probably the world's smallest multistage vacuum ejector.
- ▶ High vacuum flow at deep vacuum levels, to 92 -kPa.
- ▶ Large vacuum flow in relation to energy consumption.
- ▶ Quick response time when deep vacuum is needed.
- ▶ Good for handling sealed materials.

Technical data

Description	Unit	Value
Feed pressure, max.	MPa	0.7
Temperature range	°C	-10-80
Weight	g	1.5-2.3
Material		Al, NBR, PA, SS

Vacuum flow

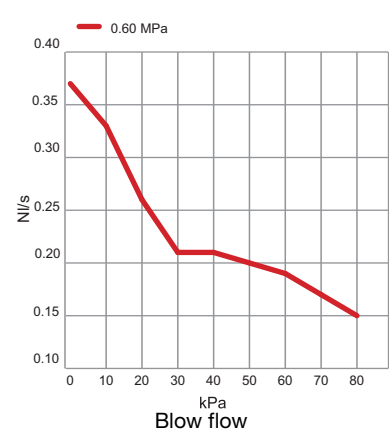
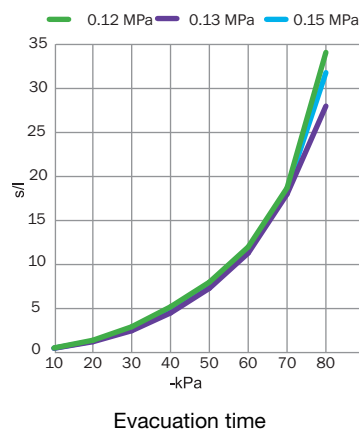
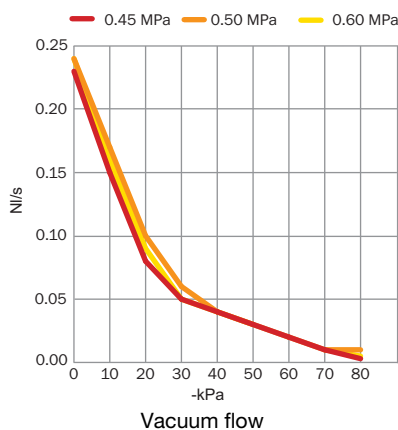
Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)										Max vacuum -kPa
		0	10	20	30	40	50	60	70	80		
0.45	0.12	0.23	0.15	0.08	0.05	0.04	0.03	0.02	0.01	0.003	89	
0.50	0.13	0.24	0.17	0.10	0.06	0.04	0.03	0.02	0.01	0.010	92	
0.60	0.15	0.24	0.16	0.09	0.05	0.04	0.03	0.02	0.01	0.005	91	

Evacuation time

Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)									Max vacuum -kPa
		10	20	30	40	50	60	70	80		
0.45	0.12	0.53	1.40	2.93	5.20	8.00	12.0	18.7	34.1	89	
0.50	0.13	0.49	1.23	2.48	4.50	7.30	11.3	18.0	28.0	92	
0.60	0.15	0.50	1.30	2.73	5.00	7.80	11.8	18.5	31.8	91	

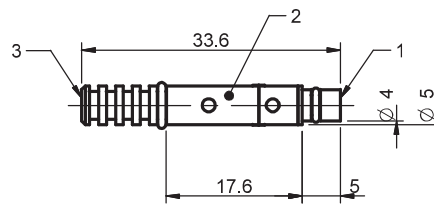
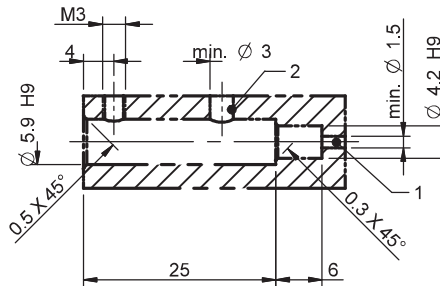
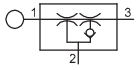
Blow flow

Feed pressure MPa	Air consumption NI/s	Blow flow (NI/s) at different pressure levels (kPa)										Max pressure kPa
		0	10	20	30	40	50	60	70	80		
0.6	0.15	0.37	0.33	0.26	0.21	0.21	0.20	0.19	0.17	0.15	90	

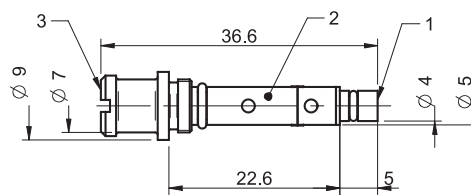
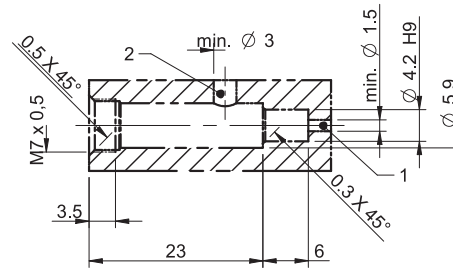
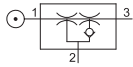


Ordering information

	Description	Art. No.
A	COAX® cartridge MICRO Xi2.5-2	0120297
B	COAX® cartridge MICRO Xi2.5-2, holding cap	0120283



A



B

COAX® MICRO