

MAXI MLL pumps family



MLL 200/400



MLL800



MLL1200

This is probably the largest compressed-air driven pump in the market. Some of the models have an optional energy saving feature.

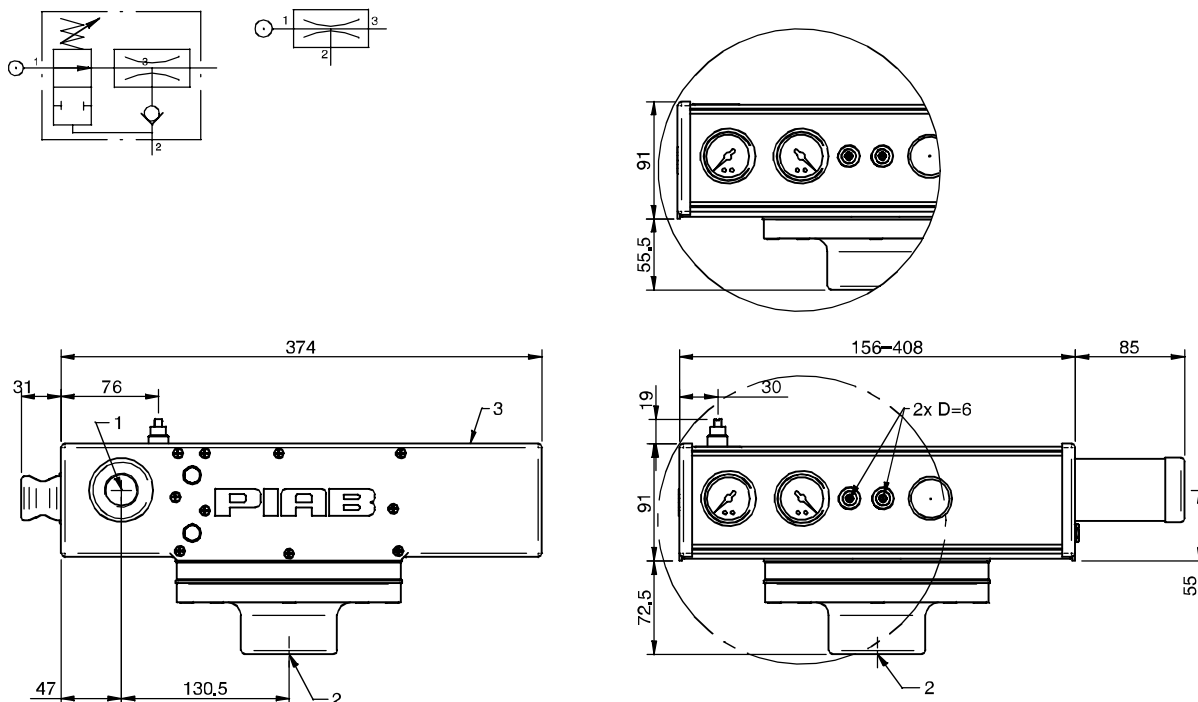
Vacuum flow

Pump name	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	90	-kPa
MLL200	0.6	14	48	27	18.1	9.5	4.8	3.3	2.4	1.1	0.48	0.01	91
MLL400	0.6	28	92	52	35	18.4	9.2	6.4	4.6	2.2	0.92	0.02	91
MLL800	0.6	56	176	99	67	35	17.6	12.3	8.8	4.2	1.8	0.04	91
MLL1200	0.6	84	255	143	97	51	26	17.9	12.8	6.1	2.6	0.05	91

Evacuation times

Pump name	Feed pressure	Air consumption	Evacuation time (s/l) to reach different vacuum levels (-kPa)										Max vacuum
	MPa	NI/s	10	20	30	40	50	60	70	80	90	-kPa	
MLL200	0.6	14	0.003	0.008	0.014	0.03	0.06	0.1	0.16	0.29	0.82	91	
MLL400	0.6	28	0.0015	0.004	0.007	0.015	0.03	0.05	0.08	0.15	0.41	91	
MLL800	0.6	56	0.0008	0.0018	0.0035	0.008	0.014	0.024	0.04	0.072	0.2	91	
MLL1200	0.6	84	0.0005	0.0012	0.0023	0.0052	0.009	0.016	0.027	0.048	0.14	91	

Dimensional drawing



Ordering information

For a complete list of available pumps and combinations with further information visit piab.com. On our webpage you will also be able to find dimensional drawings, CAD-drawings and much more. Register and get full access to all resources available.

MLL200



- ▶ Largest compressed-air driven pump in the market
- ▶ Energy-saving (ES) available

Supplied with built-in silencer, on-off valve, vacuum gauge and pilot control facility.

TECHNICAL DATA

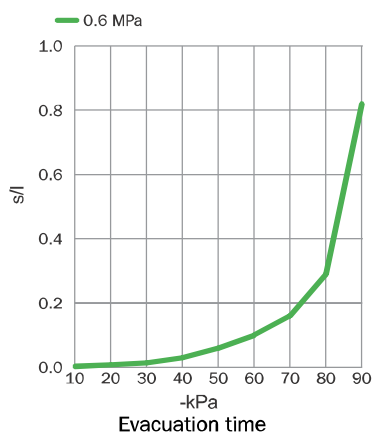
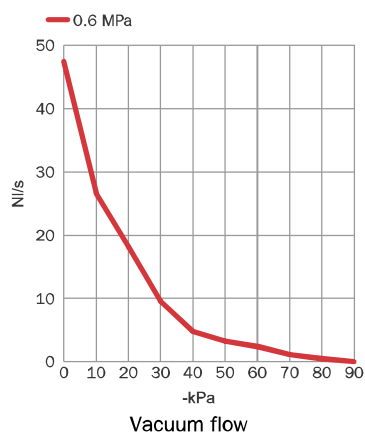
Description	Unit	Value
Feed pressure, max.	MPa	0.7
Noise level	dBA	72–76
Temperature range	°C	-20–80
Weight	g	4900–5300
Material		Al, PPS, NBR, SS

VACUUM FLOW

Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)											Max vacuum -kPa
0.60	14.0	48	27	18.1	9.5	4.8	3.3	2.4	1.1	0.48	0.010		91

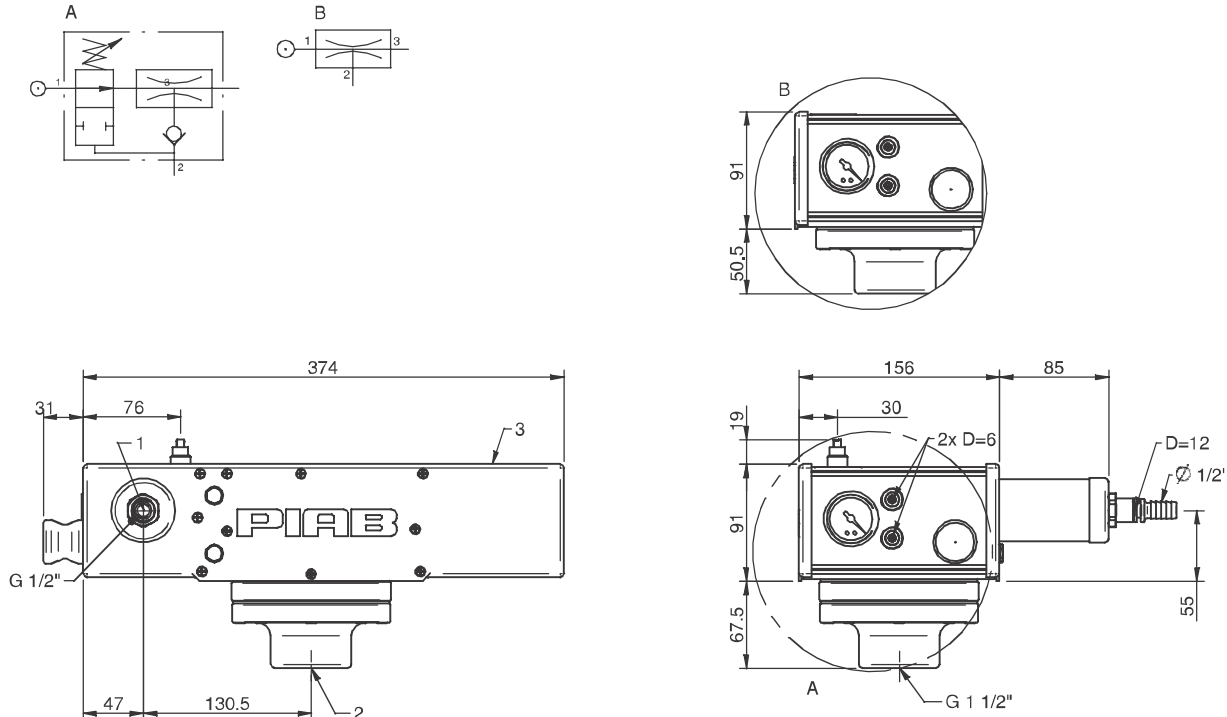
EVACUATION TIME

Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)										Max vacuum -kPa
0.60	14.0	10	20	30	40	50	60	70	80	90		91
		0.003	0.008	0.014	0.030	0.060	0.10	0.16	0.29	0.82		



ORDERING INFORMATION

	Description	Art. No.
A	Vacuum pump MAXI MLL200, NBR sealings, ES	0100741
B	Vacuum pump MAXI MLL200, NBR sealings	3101056



ORDERING INFORMATION, ACCESSORIES

Description	Art. No.
Sealing kit MAXI MLL200-400, NBR	3101091
Sealing kit MAXI MLL200-400, Viton®	3101091V
Sealing kit MAXI MLL200-400, EPDM	3101091E

The sealing kits include flap valves and gaskets.

MLL400



- ▶ Largest compressed-air driven pump in the market
- ▶ Energy-saving (ES) available

Supplied with built-in silencer, on-off valve, vacuum gauge and pilot control facility.

TECHNICAL DATA

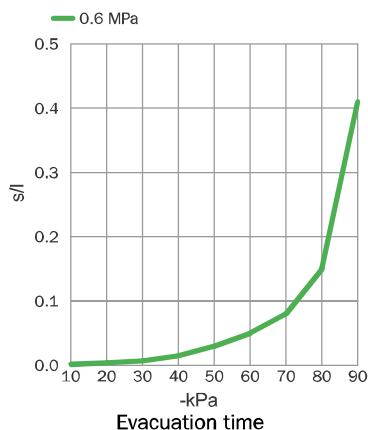
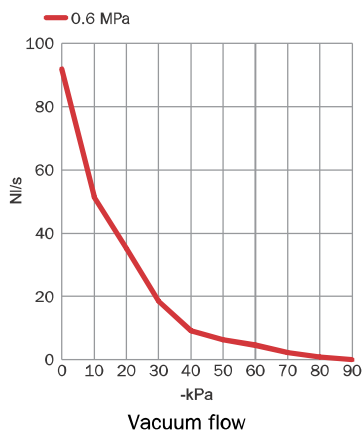
Description	Unit	Value
Feed pressure, max.	MPa	0.7
Noise level	dBA	72–76
Temperature range	°C	-20–80
Weight	g	5000–5400
Material		Al, PPS, NBR, SS

VACUUM FLOW

Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)											Max vacuum -kPa
0.60	28	92	52	35	18.4	9.2	6.4	4.6	2.2	0.92	0.020		91

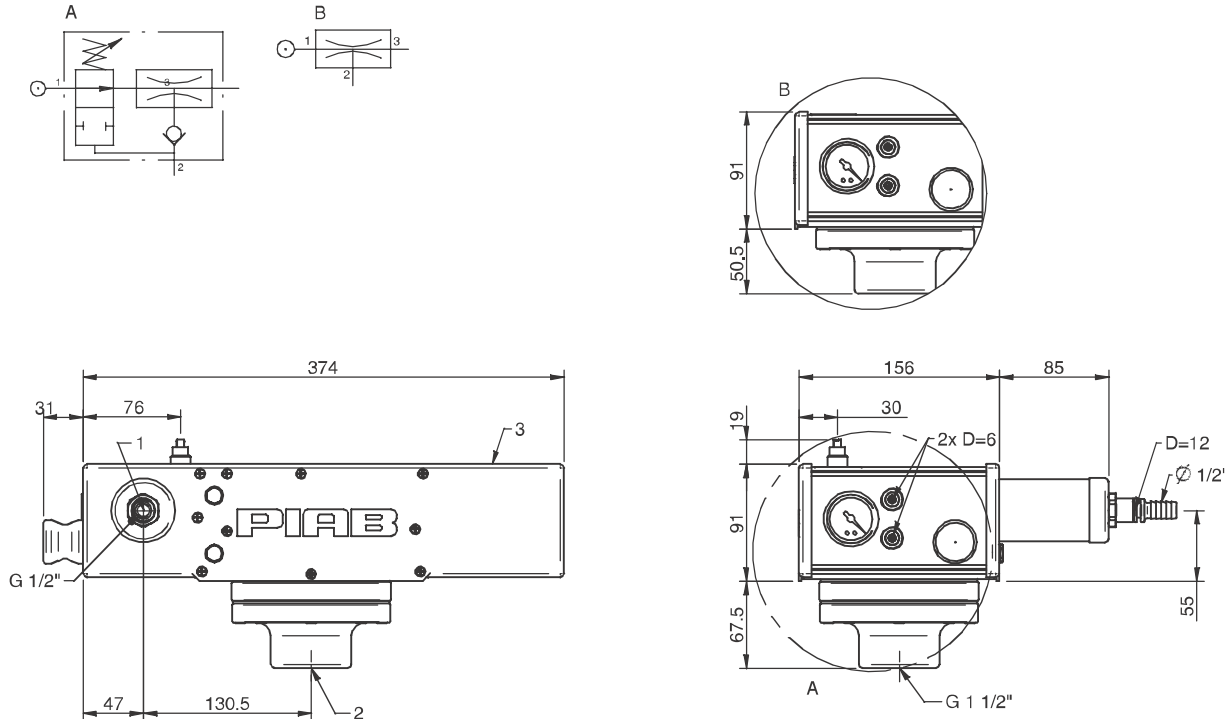
EVACUATION TIME

Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)										Max vacuum -kPa
0.60	28	10	20	30	40	50	60	70	80	90		91
		0.0015	0.004	0.007	0.015	0.030	0.050	0.080	0.15	0.41		



ORDERING INFORMATION

	Description	Art. No.
A	Vacuum pump MAXI MLL400, NBR sealings, ES	0100742
B	Vacuum pump MAXI MLL400, NBR sealings	3101057



ORDERING INFORMATION, ACCESSORIES

Description	Art. No.
Sealing kit MAXI MLL200–400, NBR	3101091
Sealing kit MAXI MLL200–400, Viton®	3101091V
Sealing kit MAXI MLL200–400, EPDM	3101091E

The sealing kits include flap valves and gaskets.

MLL800



- ▶ Largest compressed-air driven pump in the market
- ▶ Energy-saving (ES) available

Supplied with built-in silencer, on-off valve, vacuum gauge and pilot control facility.

TECHNICAL DATA

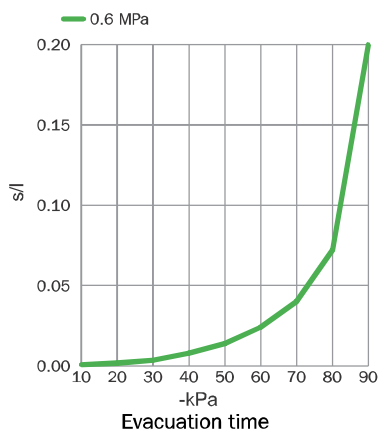
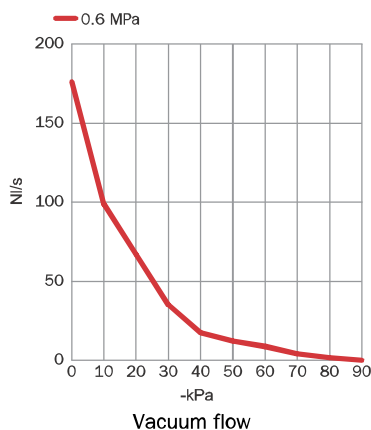
Description	Unit	Value
Feed pressure, max.	MPa	0.7
Noise level	dBA	72–76
Temperature range	°C	-20–80
Weight	g	7700–8400
Material		Al, PPS, NBR, SS

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	90	
0.60	56	176	99	67	35	17.6	12.3	8.8	4.2	1.8	0.040	91

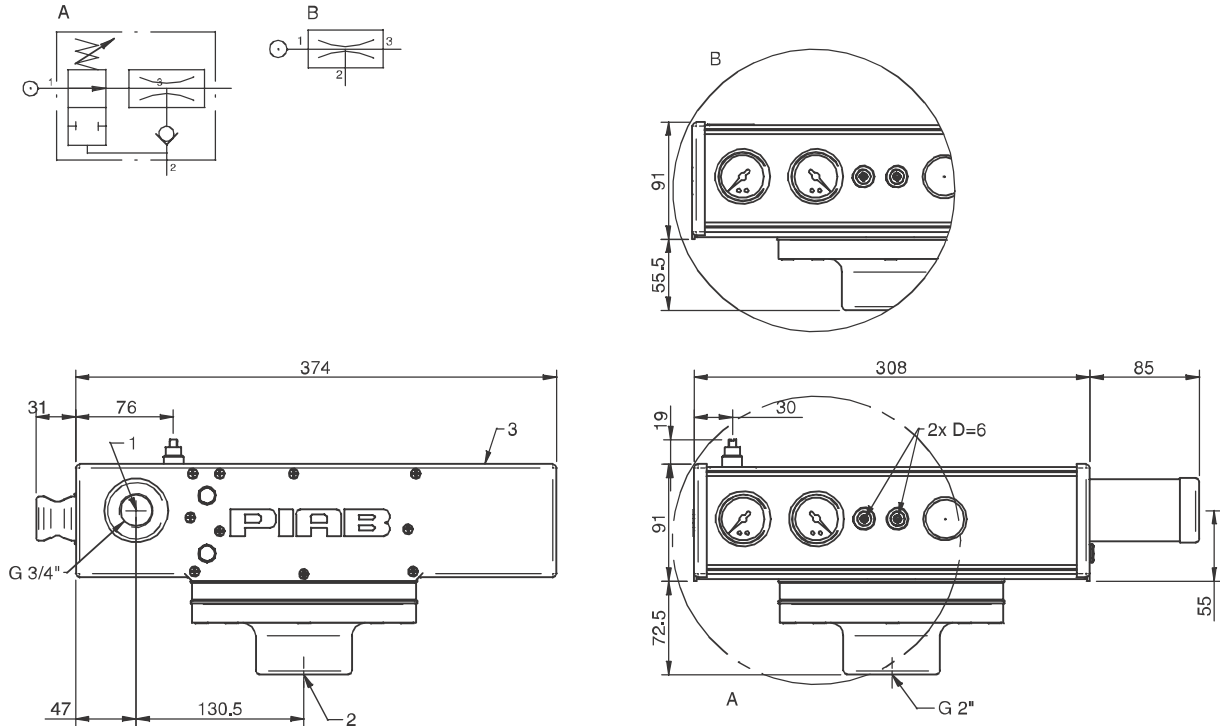
EVACUATION TIME

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	90	
0.60	56	0.0008	0.0018	0.0035	0.008	0.014	0.024	0.040	0.072	0.2	91



ORDERING INFORMATION

	Description	Art. No.
A	Vacuum pump MAXI MLL800, NBR sealings, ES	0100743
B	Vacuum pump MAXI MLL800, NBR sealings	3101058



ORDERING INFORMATION, ACCESSORIES

Description	Art. No.
Sealing kit MAXI MLL800, NBR	3101092
Sealing kit MAXI MLL800, Viton®	3101092V
Sealing kit MAXI MLL800, EPDM	3101092E

The sealing kits include flap valves and gaskets.

MLL1200



- ▶ Largest compressed-air driven pump in the market
- ▶ Energy-saving (ES) available

Supplied with built-in silencer, on-off valve, vacuum gauge and pilot control facility.

TECHNICAL DATA

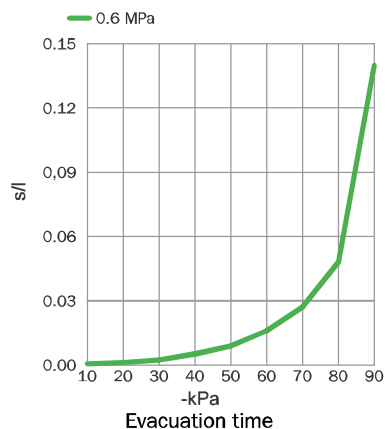
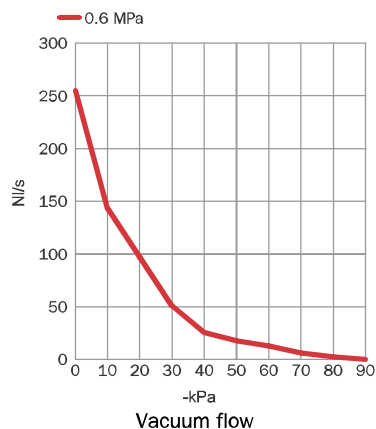
Description	Unit	Value
Feed pressure, max.	MPa	0.7
Noise level	dBA	72–76
Temperature range	°C	-20–80
Weight	g	9000–9900
Material		Al, PPS, NBR, SS

VACUUM FLOW

Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)										Max vacuum -kPa
0.60	84	255	143	97	51	26	17.9	12.8	6.1	2.6	0.050	91

EVACUATION TIME

Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)										Max vacuum -kPa
0.60	84	0.0005	0.0012	0.0023	0.0052	0.009	0.016	0.027	0.048	0.14		91



CENTRAL EXHAUST



- ▶ Central exhaust is used when an external silencer is desired or if a tube/hose is to be connected for removing the exhaust.
- ▶ Suitable for vacuum pumps MAXI.

TECHNICAL DATA

Description	Value
Material	Al, NBR, PE

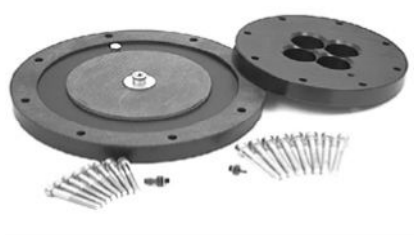
TECHNICAL DATA, SPECIFIC

Description	Unit	Value	Value	Value
		3116017	3116018	3116054
Weight	g	490	900	1720

ORDERING INFORMATION

Description	Art. No.
Central exhaust MLL200–400	3116017
Central exhaust MLL800	3116018
Central exhaust MLL1200	3116054

NON-RETURN VALVE



- ▶ Suitable for vacuum pumps MAXI.
- ▶ To be used together with energy-saving system.

TECHNICAL DATA

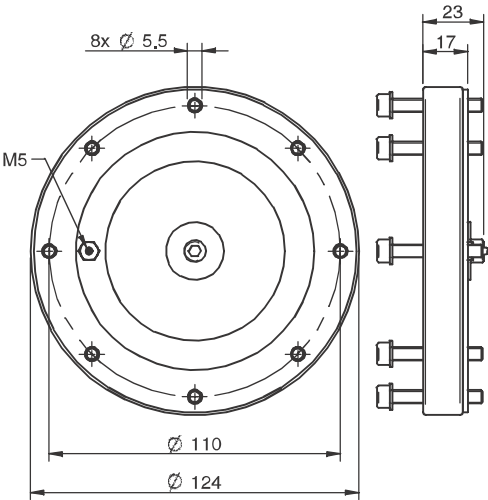
Description	Value
Material	Al, NBR, Cr, SS, CuZn, PA

TECHNICAL DATA, SPECIFIC

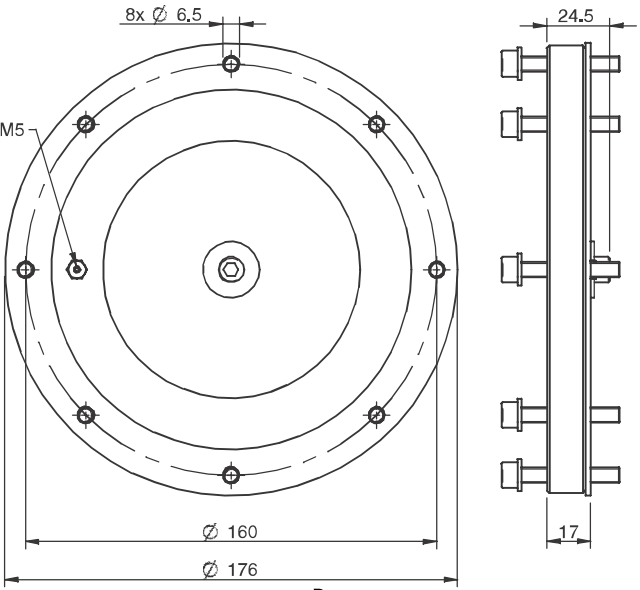
Description	Unit	3116007	3116008
Weight	g	490	970

ORDERING INFORMATION

	Description	Art. No.
A	Non-return valve MLL200-400	3116007
B	Non-return valve MLL800-1200	3116008



A



B

