



Eurovacuum EVDR-Series

Dry Rotary Vane Vacuum Pumps & Compressors

Contents



Eurovacuum EVDR Series

Dry Running Rotary Vane Vacuum Pumps

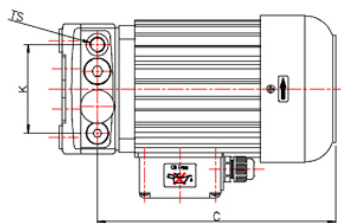
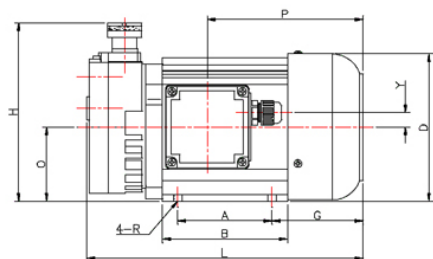
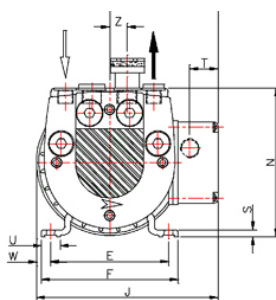
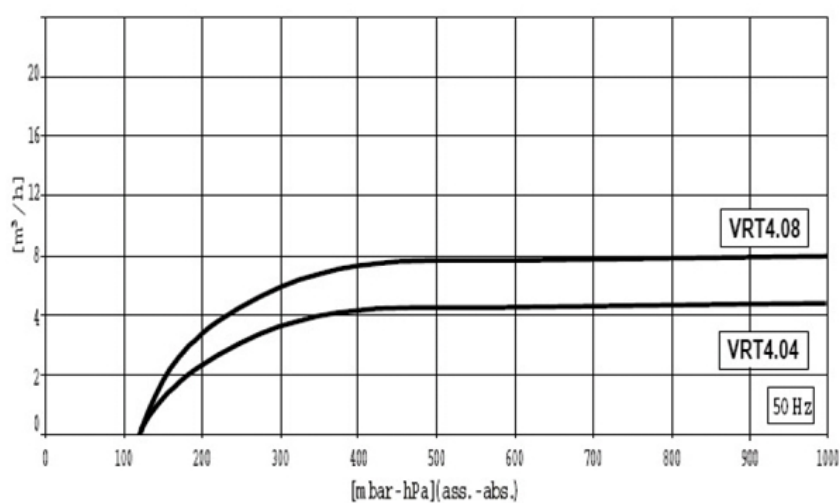
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TYPE VRT4.04



Dimensions	A	B	C	D	E	F	G	H	J	K	L	M
VRT4.04	80	106	202	125	100	116	77	151	154	75	234	92
	N	O	P	R	S	T	U	W	Y	Z	TS	
VRT4.04	126	63	132	Ø7	6	24	16	12	12	15	G 1/4	

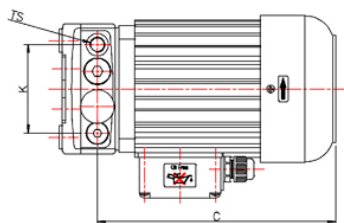
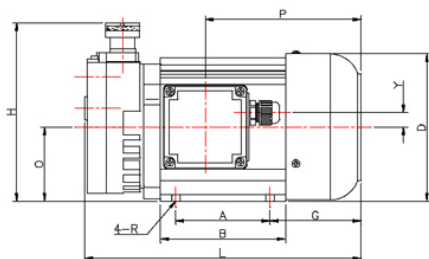
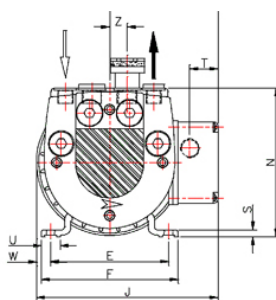
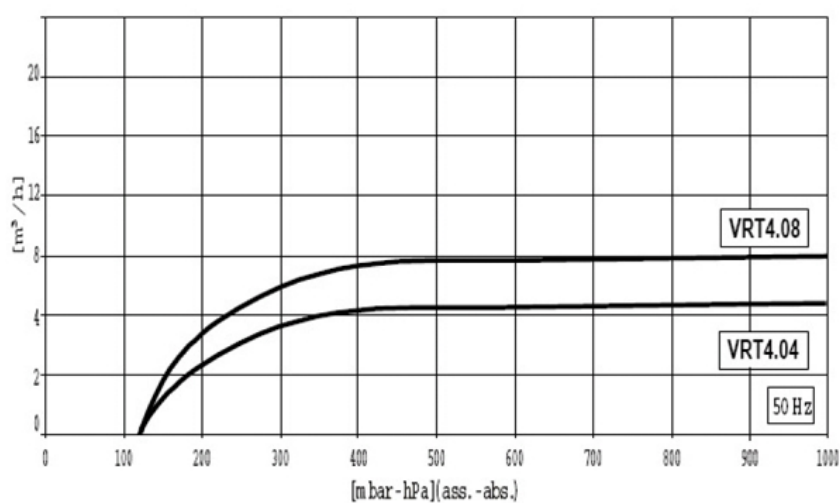
TYPE VRT4.04

Technical Data		TYPE VRT4.04	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	4,0	4,8
Ultimate pressure	mbar	150	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,18	0,22
Nominal speed	rpm	1400	1700
Noise level	dB(A)	59	61
Operating temperature*	°C	70 - 73	75 - 80
Ambient temperature	°C	0 - 40	
Weight	kg	7,5	
Connection Inlet	G(BSP)	¼"	

*at ambient temperature 20°C

Ordering Information	TYPE VRT4.04	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	641.404	
Three phase motor 400V, 50Hz (IEC)	643.404	
Other Voltages/Frequencies	Upon request	
Spare parts:		
Set of vanes	640.113	
Maintenance kit	640.199	
Exhaust filter cartridge	640.198	

TYPE VRT4.08



Dimensions	A	B	C	D	E	F	G	H	J	K	L	M
VRT4.08	80	106	209	125	100	116	77	158	155	79	244	93
	N	O	P	R	S	T	U	W	Y	Z	TS	
VRT4.08	133	63	132	Ø7	6	24	16	12	12	15,5	G ³ /8	

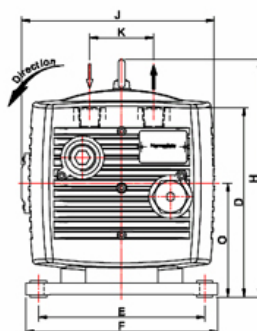
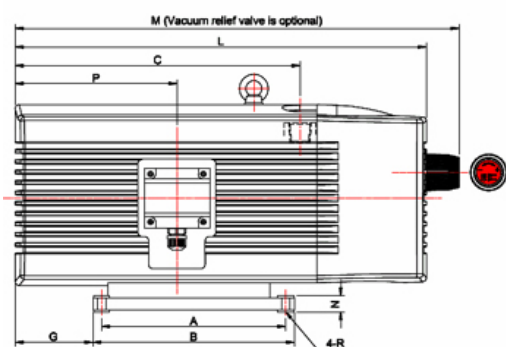
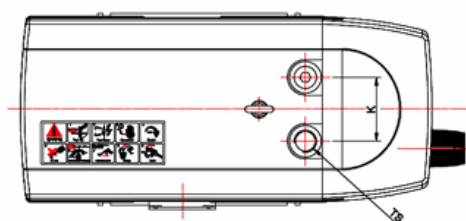
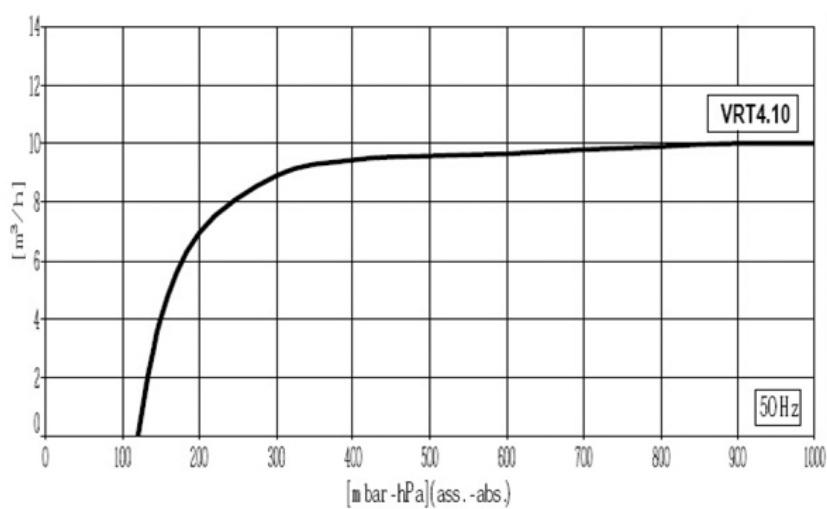
TYPE VRT4.08

Technical Data		TYPE VRT4.08	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	8,0	9,6
Ultimate pressure	mbar	150	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,35	0,42
Nominal speed	rpm	1400	1700
Noise level	dB(A)	60	61
Operating temperature*	°C	70 - 73	72 - 75
Ambient temperature	°C	0 - 40	
Weight	kg	12	
Connection Inlet	G(BSP)	3/8"	

*at ambient temperature 20°C

Ordering Information	TYPE VRT4.08	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	641.408	
Three phase motor 400V, 50Hz (IEC)	643.408	
Other Voltages/Frequencies	Upon request	
Spare parts:		
Set of vanes	640.213	
Maintenance kit	640.299	
Exhaust filter cartridge	640.298	

TYPE VRT4.10



Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	TS
VRT4.10	202	233	308	200	125	157	91	275	232	75	433	465	20	130	167	Ø9	G ½

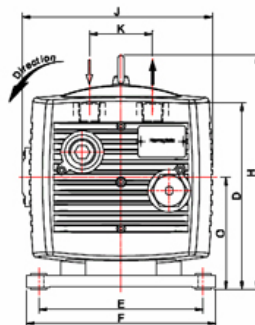
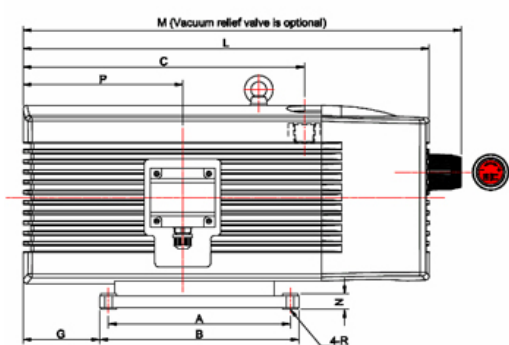
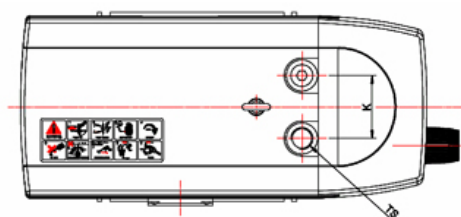
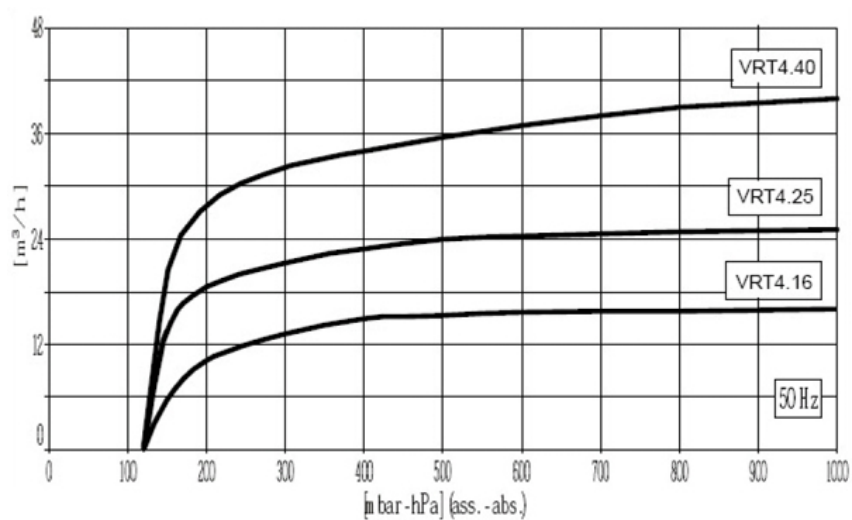
TYPE VRT4.10

Technical Data		TYPE VRT4.10	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	10	12
Ultimate pressure	mbar	150	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,37	0,37
Nominal speed	rpm	1400	1700
Noise level	dB(A)	58	60
Operating temperature*	°C	72 - 78	75 - 80
Ambient temperature	°C	0 - 40	
Weight	kg	21	
Connection Inlet	G(BSP)	½"	

*at ambient temperature 20°C

Ordering Information	TYPE VRT4.10	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	641.410	
Three phase motor 400V, 50Hz (IEC)	643.410	
Other Voltages/Frequencies	Upon request	
Accessories:		
Vacuum limitation valve	640.397	
Non return valve (vacuum safety valve)	640.396	
Inlet dust filter with paper cartridge	02.800	
Spare parts:		
Set of vanes	640.313	
Maintenance kit	640.399	
Filter cartridge	640.323	

TYPE VRT4.16



Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	TS
VRT4.16	202	233	327	200	125	157	91	275	232	75	458	490	20	130	167	Ø9	G ½

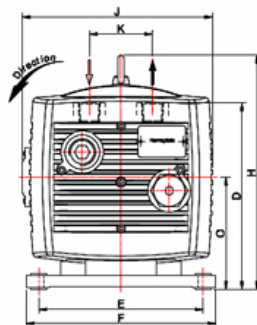
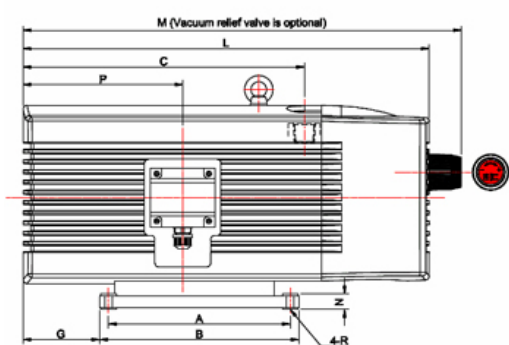
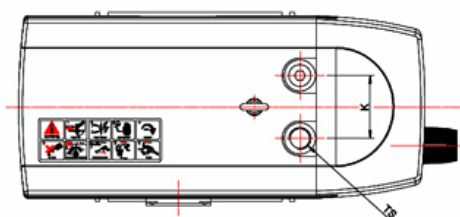
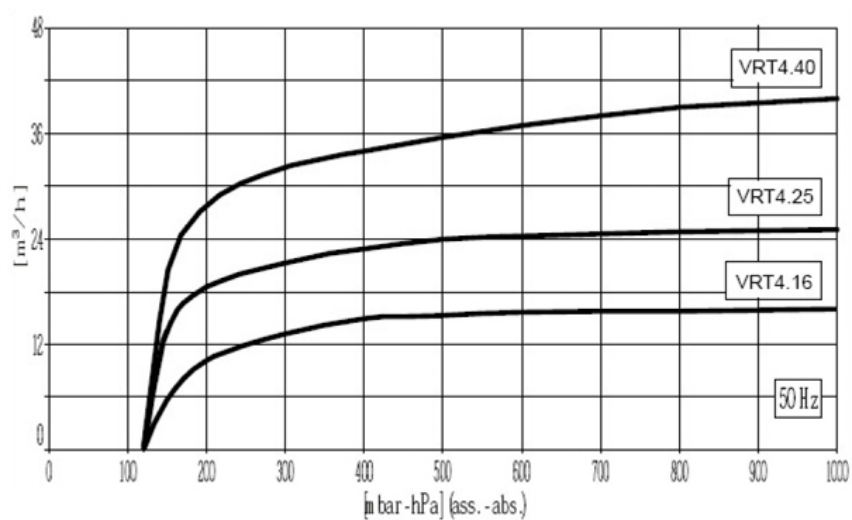
TYPE VRT4.16

Technical Data		TYPE VRT4.16	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	16	19
Ultimate pressure	mbar	150	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,55	0,55
Nominal speed	rpm	1400	1700
Noise level	dB(A)	59	61
Operating temperature*	°C	70 - 73	75 - 80
Ambient temperature	°C	0 - 40	
Weight	kg	24	
Connection Inlet	G(BSP)	½"	

*at ambient temperature 20°C

Ordering Information	TYPE VRT4.16	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	641.416	
Three phase motor 400V, 50Hz (IEC)	643.416	
Other Voltages/Frequencies	Upon request	
Accessories:		
Vacuum limitation valve	640.497	
Non return valve (vacuum safety valve)	640.496	
Inlet dust filter with paper cartridge	02.800	
Spare parts:		
Set of vanes	640.413	
Maintenance kit	640.499	
Filter cartridge	640.423	

TYPE VRT4.25



Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	TS
VRT4.25	220	252	353	230	208	240	123	295	243	80	513	555	20	143	192	Ø9	G $\frac{3}{4}$

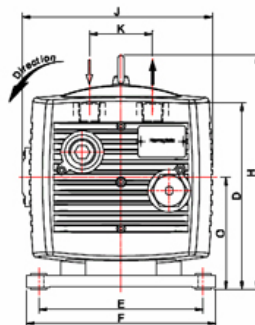
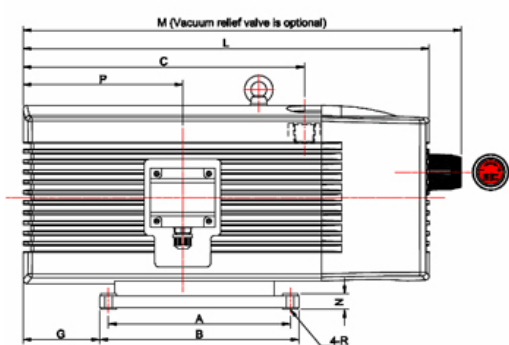
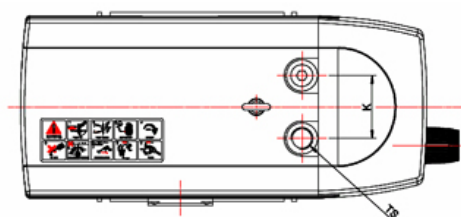
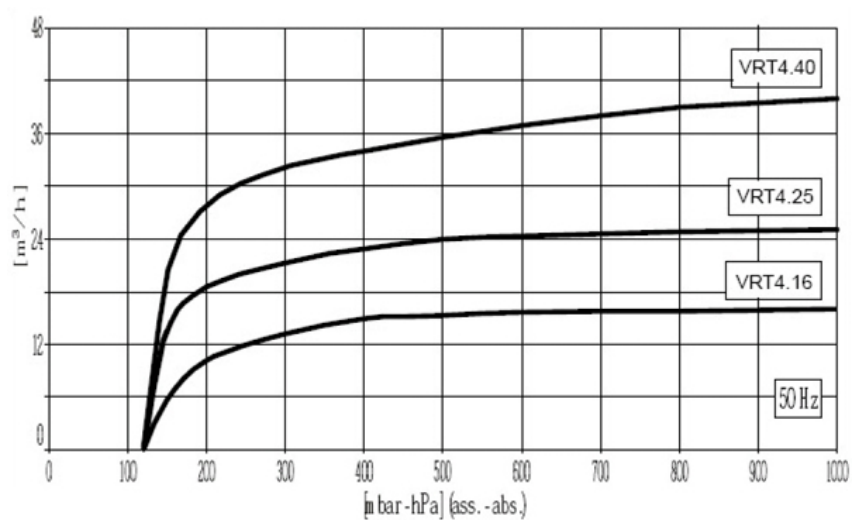
TYPE VRT4.25

Technical Data		TYPE VRT4.25	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	25	30
Ultimate pressure	mbar	120	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,9	0,9
Nominal speed	rpm	1400	1700
Noise level	dB(A)	60	62
Operating temperature*	°C	70 - 73	72 - 75
Ambient temperature	°C	0 - 40	
Weight	kg	32	
Connection Inlet	G(BSP)	3/4"	

*at ambient temperature 20°C

Ordering Information	TYPE VRT4.25	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	641.425	
Three phase motor 400V, 50Hz (IEC)	643.425	
Other Voltages/Frequencies	Upon request	
Accessories:		
Vacuum limitation valve	640.597	
Non return valve (vacuum safety valve)	640.596	
Inlet dust filter with paper cartridge	03.800	
Spare parts:		
Set of vanes	640.513	
Maintenance kit	640.599	
Filter cartridge	640.523	

TYPE VRT4.40



Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	TS
VRT4.40	220	252	400	230	208	240	153	295	243	80	570	615	20	143	223	Ø9	G $\frac{3}{4}$

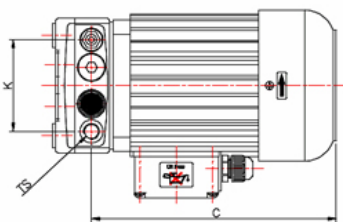
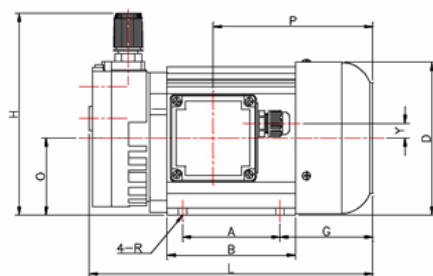
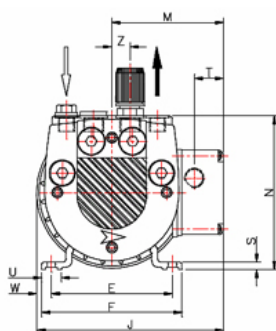
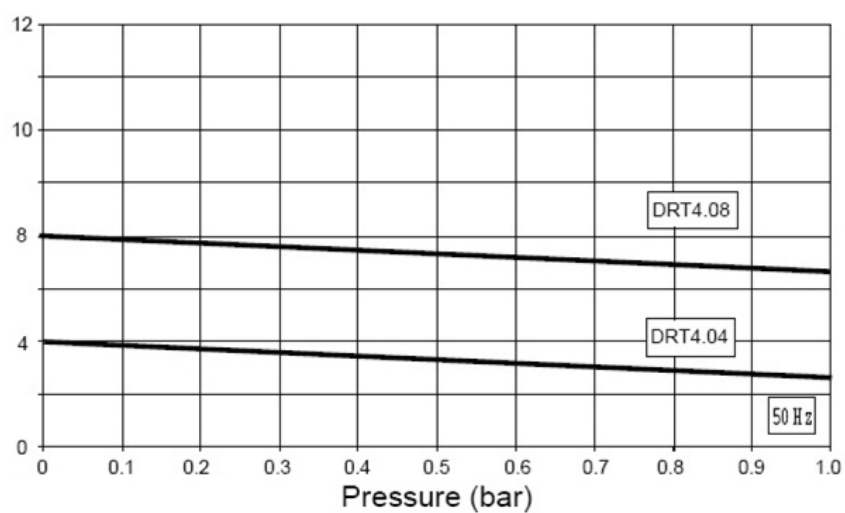
TYPE VRT4.40

Technical Data		TYPE VRT4.40	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	40	48
Ultimate pressure	mbar	120	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	1,25	1,25
Nominal speed	rpm	1400	1700
Noise level	dB(A)	65	68
Operating temperature*	°C	72 - 78	75 - 80
Ambient temperature	°C	0 - 40	
Weight	kg	38	
Connection Inlet	G(BSP)	3/4"	

*at ambient temperature 20°C

Ordering Information	TYPE VRT4.40	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	641.440	
Three phase motor 400V, 50Hz (IEC)	643.440	
Other Voltages/Frequencies	Upon request	
Accessories:		
Vacuum limitation valve	640.697	
Non return valve (vacuum safety valve)	640.696	
Inlet dust filter with paper cartridge	03.800	
Spare parts:		
Set of vanes	640.613	
Maintenance kit	640.699	
Filter cartridge	640.623	

TYPE DRT4.04



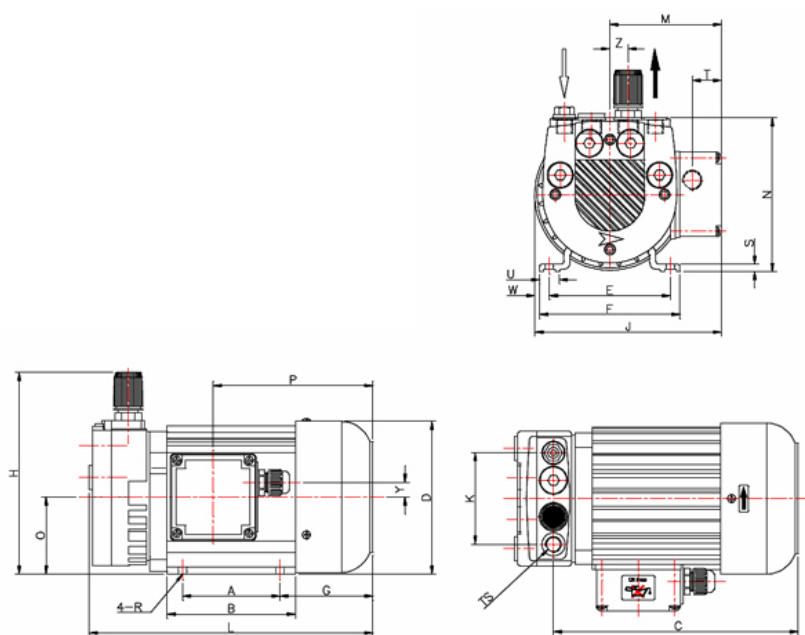
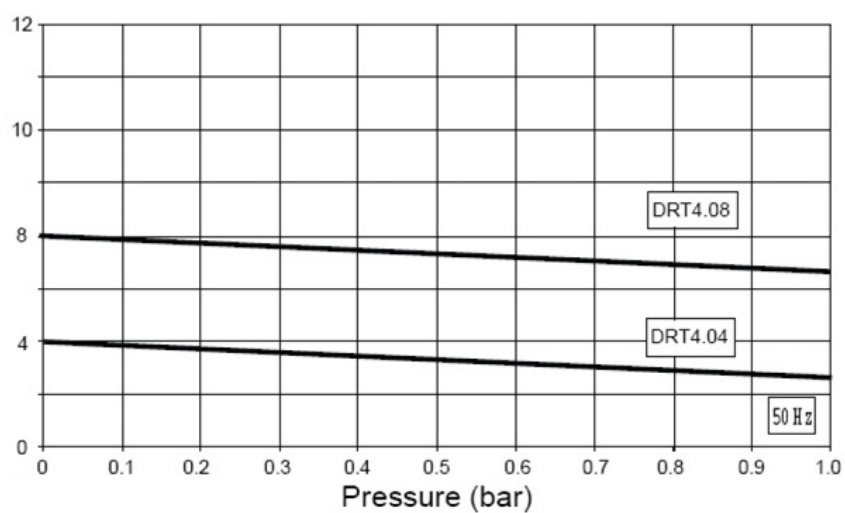
Dimensions	A	B	C	D	E	F	G	H	J	K	L	M
DRT4.04	80	106	202	125	100	116	77	165	154	75	234	92
	N	O	P	R	S	T	U	W	Y	Z	TS	
DRT4.04	126	63	132	Ø7	6	24	16	12	12	15	G ¼	

TYPE DRT4.04

Technical Data		TYPE DRT4.04	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	4,0	4,8
Ultimate pressure	bar	1	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,18	0,22
Nominal speed	rpm	2800	3100
Noise level	dB(A)	58	61
Inlet air temperature	°C	0 - 40	
Ambient temperature	°C	0 - 40	
Weight	kg	7,5	
Connection	Inlet G(BSP)	¼"	

Ordering Information	TYPE DRT4.04	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	651.404	
Three phase motor 400V, 50Hz (IEC)	653.404	
Other Voltages/Frequencies	Upon request	
Spare parts:		
Set of vanes	650.113	
Maintenance kit	650.199	
Exhaust filter cartridge	650.198	

TYPE DRT4.08



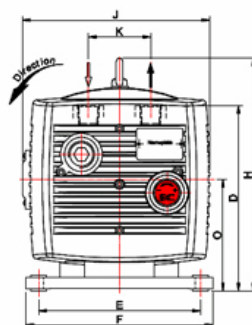
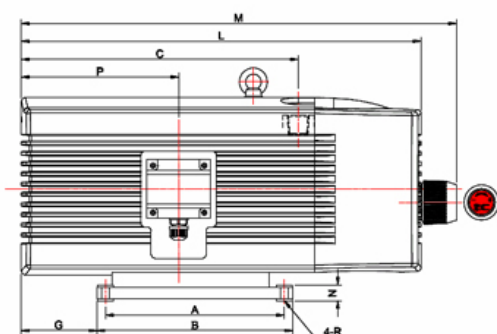
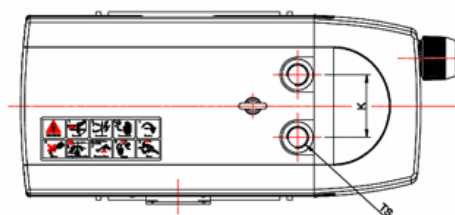
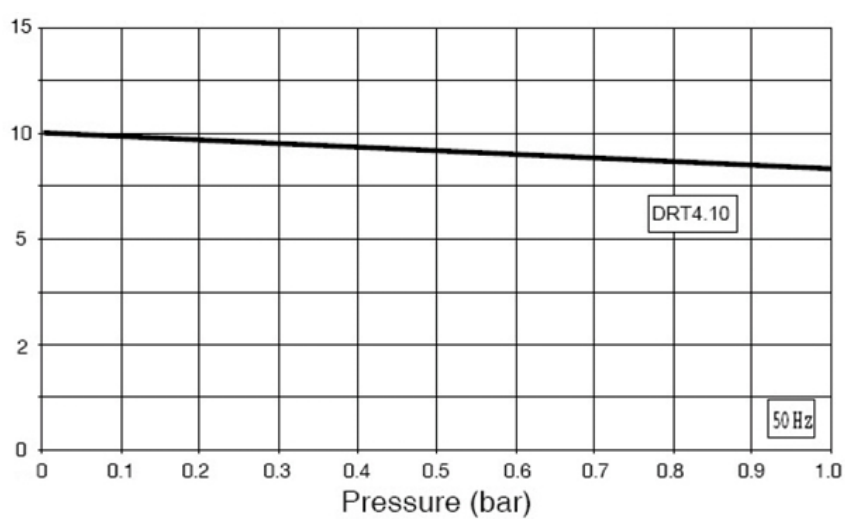
Dimensions	A	B	C	D	E	F	G	H	J	K	L	M
DRT4.08	80	106	209	125	100	116	77	171,5	155	79	244	93
	N	O	P	R	S	T	U	W	Y	Z	TS	
DRT4.08	133	63	132	Ø7	6	24	16	12	12	15,5	G ³ / ₈	

TYPE DRT4.08

Technical Data		TYPE DRT4.08	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	8,0	9,0
Ultimate pressure	bar	1	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,35	0,42
Nominal speed	rpm	2800	3100
Noise level	dB(A)	58	61
Inlet air temperature	°C	0 - 40	
Ambient temperature	°C	0 - 40	
Weight	kg	12	
Connection	Inlet G(BSP)	3/8"	

Ordering Information	TYPE DRT4.08	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	651.408	
Three phase motor 400V, 50Hz (IEC)	653.408	
Other Voltages/Frequencies	Upon request	
Spare parts:		
Set of vanes	650.213	
Maintenance kit	650.299	
Exhaust filter cartridge	650.298	

TYPE DRT4.10



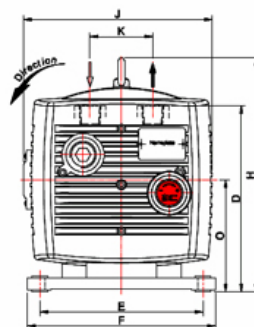
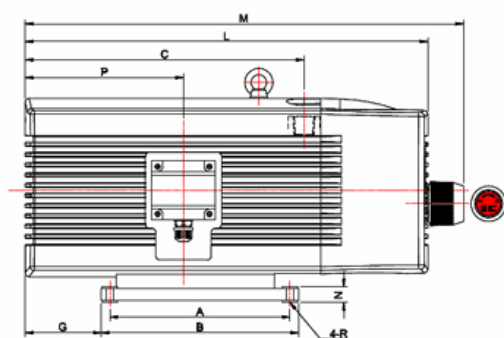
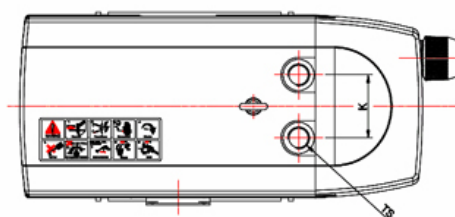
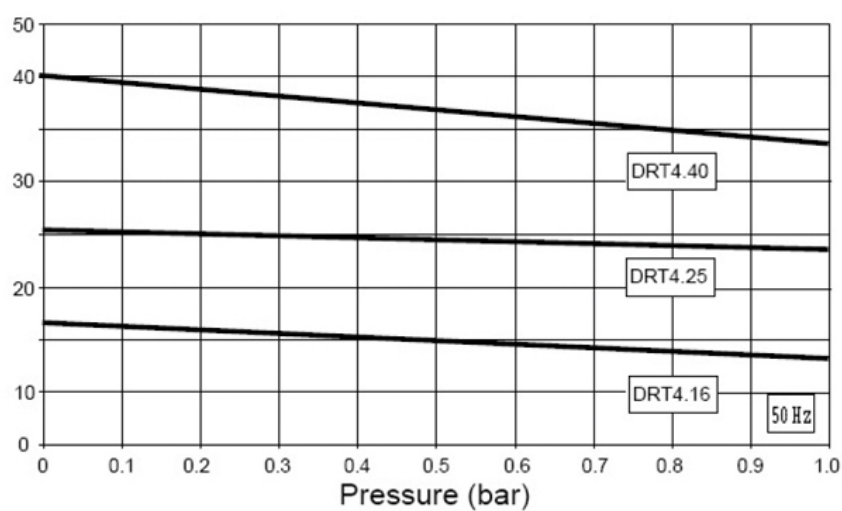
Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	TS
DRT4.10	202	233	308	200	125	157	91	275	232	75	433	470	20	130	167	Ø9	G ½

TYPE DRT4.10

Technical Data		TYPE DRT4.10	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	10	12
Ultimate pressure	bar	1	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,37	0,37
Nominal speed	rpm	1400	1700
Noise level	dB(A)	58	60
Inlet air temperature	°C	0 - 40	
Ambient temperature	°C	0 - 40	
Weight	kg	21	
Connection	Inlet G(BSP)	½"	

Ordering Information	TYPE DRT4.10	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	651.410	
Three phase motor 400V, 50Hz (IEC)	653.410	
Other Voltages/Frequencies	Upon request	
Accessories:		
Pressure relief valve	650.394	
Inlet filter	650.395	
Spare parts:		
Set of vanes	650.313	
Maintenance kit	650.399	
Filter cartridge	650.323E	

TYPE DRT4.16



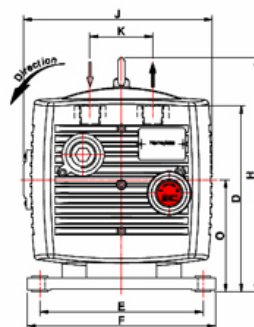
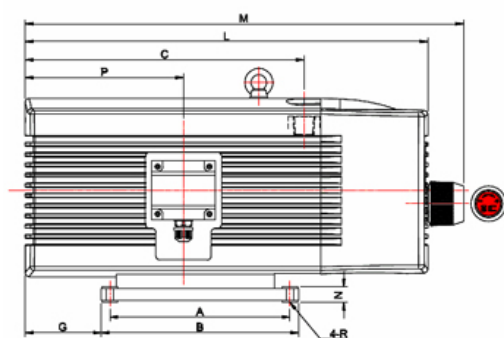
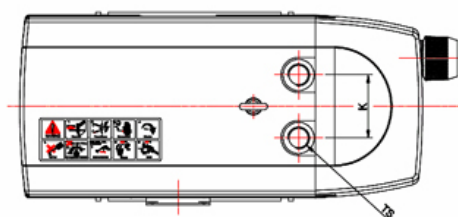
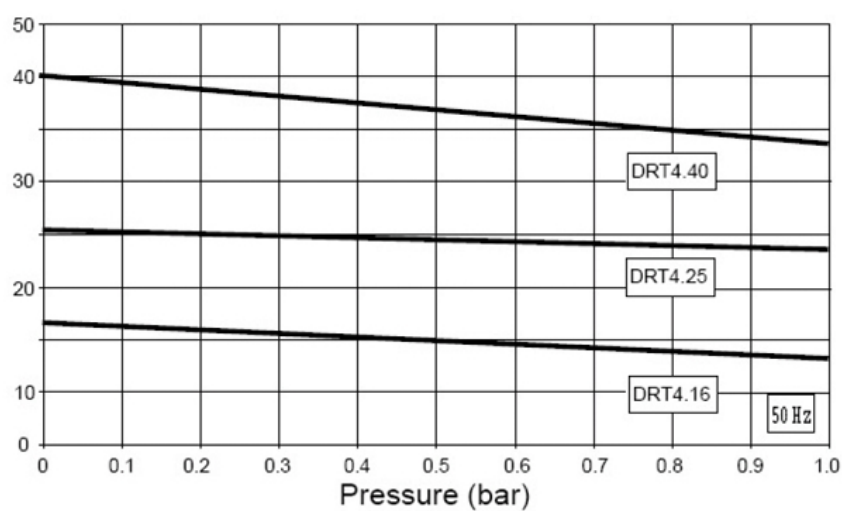
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DRT4.16	202	233	327	200	125	157	91	275	232	75	458	495	20	130	167	Ø9	G ½

TYPE DRT4.16

Technical Data		TYPE DRT4.16	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	16	19
Ultimate pressure	bar	1	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,55	0,55
Nominal speed	rpm	1430	1740
Noise level	dB(A)	59	61
Inlet air temperature	°C	0 - 40	
Ambient temperature	°C	0 - 40	
Weight	kg	24	
Connection	Inlet G(BSP)	½"	

Ordering Information	TYPE DRT4.16	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	651.416	
Three phase motor 400V, 50Hz (IEC)	653.416	
Other Voltages/Frequencies	Upon request	
Accessories:		
Pressure relief valve	650.494	
Inlet filter	650.495	
Spare parts:		
Set of vanes	650.413	
Maintenance kit	650.499	
Filter cartridge	650.423E	

TYPE DRT4.25



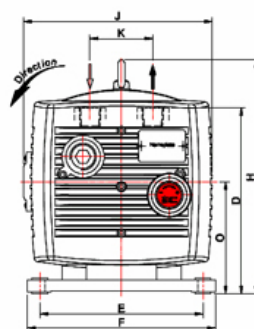
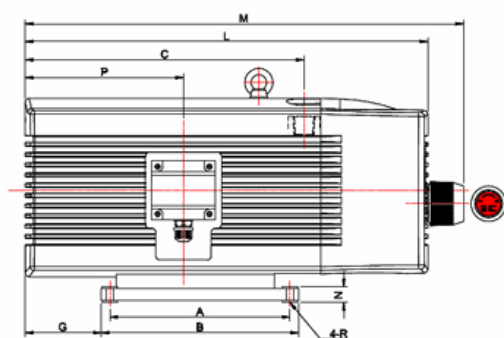
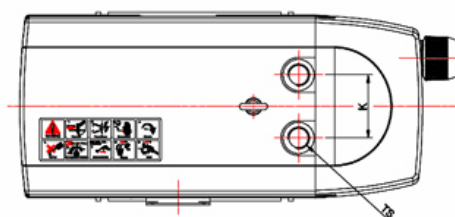
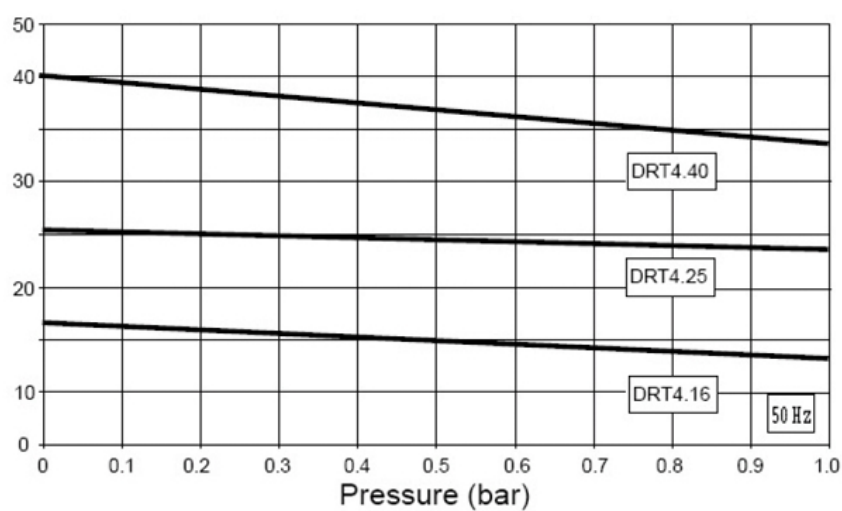
Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	TS
DRT4.25	220	252	353	230	208	240	123	295	243	80	513	560	20	143	192	Ø9	G ³ / ₄

TYPE DRT4.25

Technical Data		TYPE DRT4.25	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	25	30
Ultimate pressure	bar	1	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	0,9	0,9
Nominal speed	rpm	1420	1740
Noise level	dB(A)	60	62
Inlet air temperature	°C	0 - 40	
Ambient temperature	°C	0 - 40	
Weight	kg	32	
Connection	Inlet G(BSP)	3/4"	

Ordering Information	TYPE DRT4.25	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	651.425	
Three phase motor 400V, 50Hz (IEC)	653.425	
Other Voltages/Frequencies	Upon request	
Accessories:		
Pressure relief valve	650.594	
Inlet filter	650.595	
Spare parts:		
Set of vanes	650.513	
Maintenance kit	650.599	
Filter cartridge	650.523E	

TYPE DRT4.40



Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	TS
DRT4.40	220	252	400	230	208	240	153	295	243	80	570	620	20	143	223	Ø9	G ³ / ₄

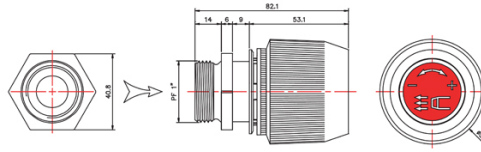
TYPE DRT4.40

Technical Data		TYPE DRT4.40	
		50 Hz	60 Hz
Nominal displacement	m ³ /h	40	48
Ultimate pressure	bar	1	
Vanes		long life carbon vanes	
Cooling type		air cooling	
Power	kW	1,25	1,25
Nominal speed	rpm	1420	1740
Noise level	dB(A)	65	68
Inlet air temperature	°C	0 - 40	
Ambient temperature	°C	0 - 40	
Weight	kg	38	
Connection	Inlet G(BSP)	3/4"	

Ordering Information	TYPE DRT4.40	
	50/60 Hz	
Single phase motor 230V, 50/60 Hz (IEC)	651.440	
Three phase motor 400V, 50Hz (IEC)	653.440	
Other Voltages/Frequencies	Upon request	
Accessories:		
Pressure relief valve	650.694	
Inlet filter	650.695	
Spare parts:		
Set of vanes	650.613	
Maintenance kit	650.699	
Filter cartridge	650.623E	

EVDR-Accessories

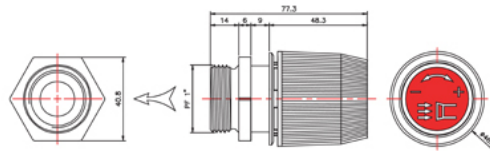
Vacuum Limitation Valve



Vacuum Limitation Valve

With this valve it is possible to control the inlet pressure of the vacuum pump, only for: VRT4.10 till VRT4.40

Pressure Relief Valve



Pressure Relief Valve

With this valve it is possible to control the exhaust pressure of the compressor, only for: DRT4.10 till DRT4.40

Non Return Valve



Non Return Valve

During standstill of the pump (for example due to shutting down or a power failure) the valve closes the intake. This prevents the pressure from rising in the connected piping or chamber while the pump is vented at the same time. This blocking process operates under all operating conditions (below 800 mbar (600 Torr)). Only for: VRT4.10 till VRT4.40

