



# Edwards nEXT-240D, 300D, 400D

## Technical Specifications

		nEXT240	nEXT300	nEXT400
Inlet flange		DN100 ISO-K or DN100CF	DN100 ISO-K or DN100CF	DN160 ISO-K or DN160-CF
Inlet Pumping Speed ls <sup>-1</sup>	N <sub>2</sub>	240	300	400
	He	230	340	390
	H <sub>2</sub>	165	280	325
Compression Ratio (D)	N <sub>2</sub>	>1 x 10 <sup>11</sup>	>1 x 10 <sup>11</sup>	>1 x 10 <sup>11</sup>
	He	3 x 10 <sup>5</sup>	1 x 10 <sup>6</sup>	1 x 10 <sup>8</sup>
	H <sub>2</sub>	1 x 10 <sup>4</sup>	5 x 10 <sup>4</sup>	5 x 10 <sup>5</sup>
Compression ratio (T/H)	N <sub>2</sub>	>1 x 10 <sup>11</sup>	>1 x 10 <sup>11</sup>	>1 x 10 <sup>11</sup>
	He	1 x 10 <sup>6</sup>	3 x 10 <sup>6</sup>	>1 x 10 <sup>8</sup>
	H <sub>2</sub>	1.5 x 10 <sup>4</sup>	1 x 10 <sup>5</sup>	1 x 10 <sup>6</sup>
Interstage Pumping Speed (ls <sup>-1</sup> )	N <sub>2</sub>	13	13	13
	He	13	13	13
	H <sub>2</sub>	11	11	11
Backing/interstage/boost ports		NW25	NW25	NW25
Vent/Purge Port		1/8" BSPP	1/8" BSPP	1/8" BSPP
Critical backing pressure (D)	mbar	9.5	9.5	10
Critical backing pressure (T)	mbar	20	20	20
Maximum Continuous Inlet flow N <sub>2</sub>				
Water cooling (40°C ambient)	sccm	45	95	105
Forced air cooling (35°C ambient)	sccm	30	115	90
Natural convection (30°C ambient)	sccm	10	35	45
Maximum system flange temperature during bakeout (CF only)				
Water cooled/forced air cooled	°C	120 / 115°	120 / 115°	120 / 115°
Maximum continuous backing pressure				
Water cooling (40°C ambient)		6	6.8	7.5
Forced air cooling (35°C ambient)		4.8	7	7.5
Natural convection (30°C ambient)		1	2.8	4
Recommended backing pump*		RV12/nXDS10i	RV12/nXDS10i	RV12/nXDS10i
Peak booster speed m <sup>3</sup> h <sup>-1</sup> (T variants)				
RV12	N <sub>2</sub>	26	26	26
nXDS10i	N <sub>2</sub>	24	24	24
Normal rotational speed (rpm)		60,000	60,000	60,000
Start time to 90% speed (sec) D (T)		115 (150)	145 (190)	180 (210)
Sound pressure level at 1 m (dBA)		<45 (+/-3)	<45 (+/-3)	<45 (+/-3)
Mass (kg) D (T)	ISO	5.7 (6)	5.7 (6)	6.5 (6.8)
	CF	8.8 (9.1)	8.5 (8.8)	9.5 (9.8)

\* a smaller backing pump may be used depending on application.



# PROVAC

## SALES

PHONE: 831-462-8900

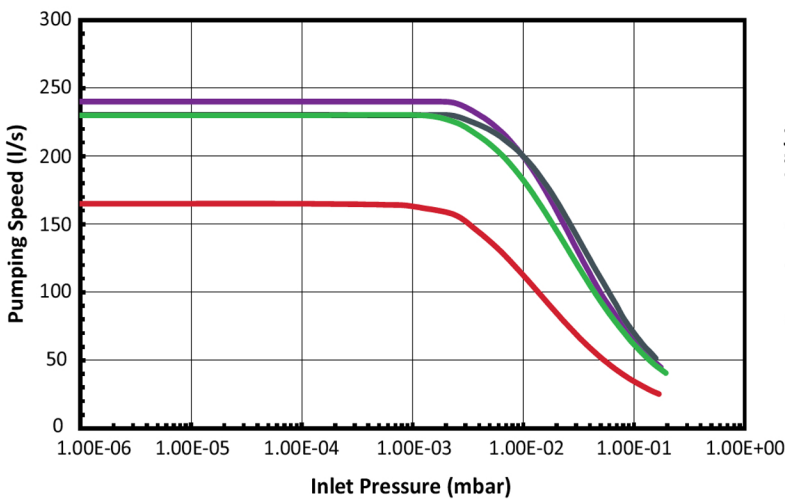
FAX: 831-462-3536

WWW.PROVAC.COM

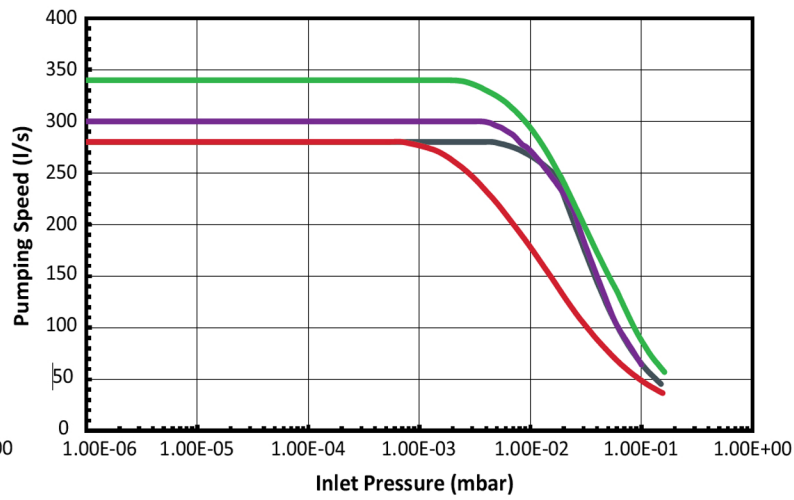
# Edwards nEXT-240D, 300D, 400D Pumping Curves



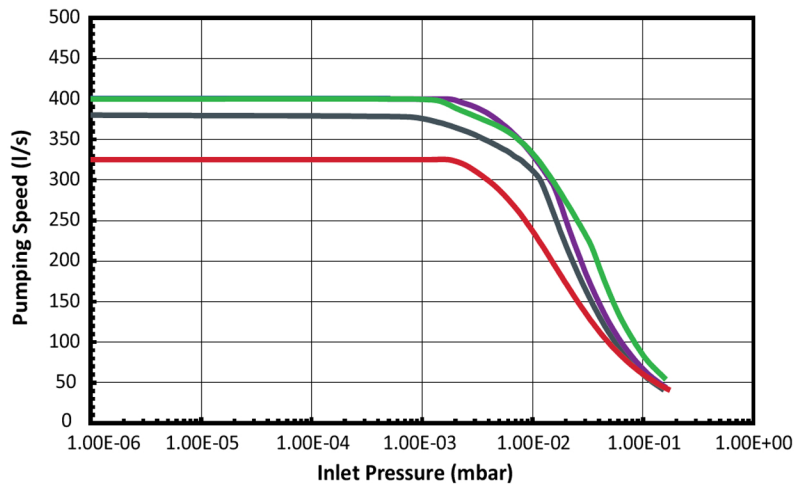
### nEXT-240D



### nEXT-300D



### nEXT-400D

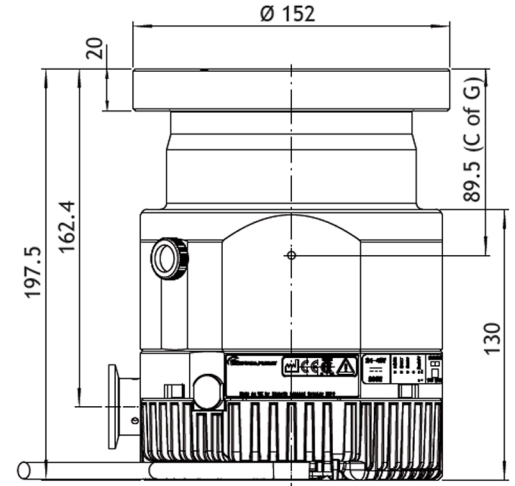
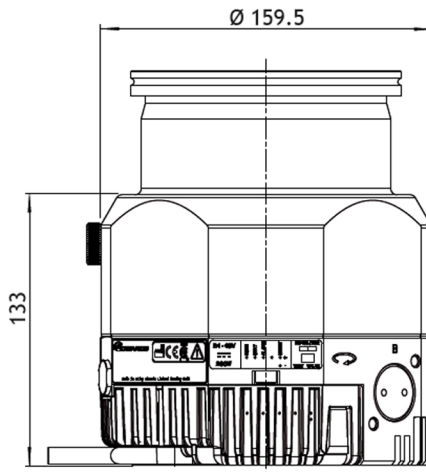
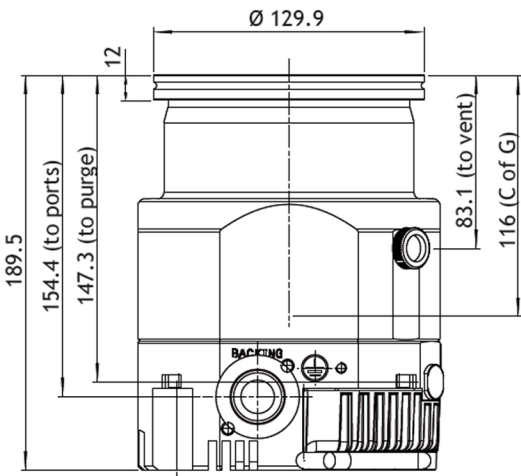




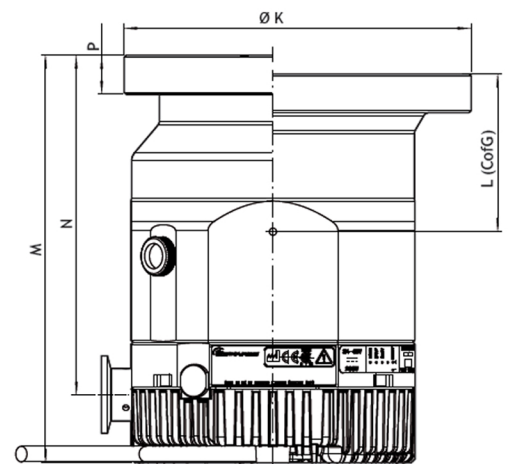
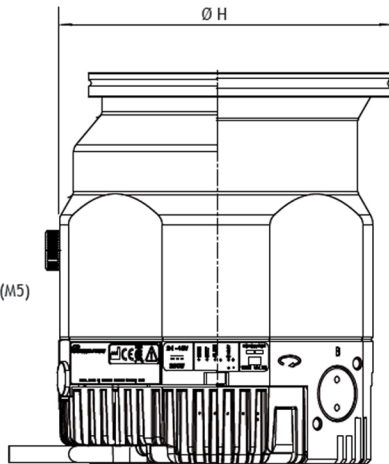
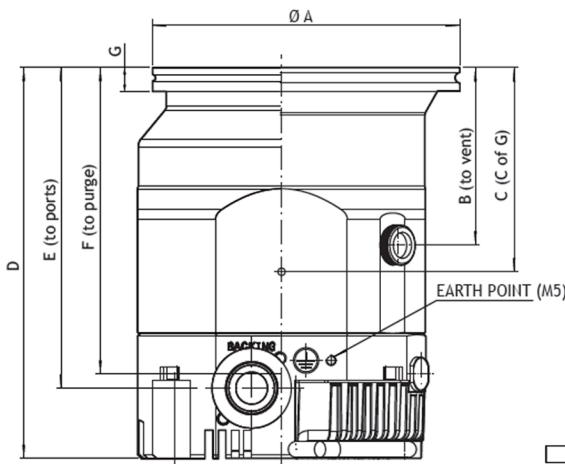
# Edwards nEXT-240D, 300D, 400D

## Dimensions

### nEXT-200D



### nEXT-300D, nEXT-400D



	A	B	C	D	E	F	G	H	J	K	L	M	N	P
nEXT300	129.9	88.7	117	195	159.5	152.8	12	159.9	87	152	81.1	200	164.9	20
nEXT400	179.9	88.7	102	195	159.5	152.8	12	159.9	87	202.4	100.4	209.5	174.4	20



# PROVAC

## SALES

PHONE: 831-462-8900

FAX: 831-462-3536

WWW.PROVAC.COM

## Edwards nEXT-240D, 300D, 400D Features & Benefits

- high level of modularity offers maximum flexibility for application
- "D" variant includes turbo & drag stages for improved tolerance to higher backing line pressures
- compact design allows for close pitch positioning
- backwards compatible with existing EXT & DX ranges
- user replaceable oil cartridge for a speedy interim service
- low cost of ownership

## Applications

- research & development • chamber evacuation • coating systems
- turbo pump systems • high energy physics • beam lines • accelerators
- mobile pump carts • turbo pump backing • laser evacuation
- medical systems • mass spectrometry • GCMS • LCMS • ICPMS
- MALDI • inorganic MS • RGA • surface science • leak detectors
- electron microscopy • TEM • SEM • EPMA • sample prep benches
- industrial • glove boxes • coating systems • XRD/XRF systems
- lamp evacuation

