

IN-VB/IN-VC



Vertical staged centrifugal pumps

Field of application

- Pressure boosting units
- Water treatment
- Irrigation
- Fire extinguishing systems
- Cooling water supply

Design

Multistage, vertical centrifugal pump. Equipped with ceramic, wear resistant, liquid lubricated bearings. Shaft seal in the form of a mechanical seal. The pump has the CE sign of approval and corresponds to the newest safety regulations.

Motor

Protection classIP 55
 Class of insulation.....F
 Voltage.....1~ 230 V ± 10 %
 Voltage.....3~ 400/230 V ± 10 %
 Speed.....2850 rpm
 Frequency50 Hz
 PTC resistor sensor.....included from 3.00 kW

Technical data

Flow rate.....Q up to max. 160 m³/h
 Total dynamic headH up to max. 250 m
 Fluid temperature.....t from -15 to max. 100 °C
 Operating pressure.....p up to max. 25 bar

Pumped fluid

Clear, moderately aggressive fluids, which don't chemically and mechanically attack the pump materials.

Type key

IN-VB-S-L 10-150-F

IN-VB/IN-VC.....pump range description
AISI 304/oval flange
 S.....wetted parts AISI 316 L
 C.....cast iron housing with round flange
 L.....low NPSH design
 10.....pump size
 150.....number of stages x 10
 F.....round flange (V = Victaulic flange)

Special editions

- Special voltages
- Special elastomers
- Special mechanical seals
- Explosion-proof design
- Higher fluid temperatures
- Aggressive mediums

IN-VB/IN-VC



Materials used IN-VB 2 to IN-VB 60, IN-VC 15

Pump housing..... stainless steel AISI CF8
 Sleeve..... stainless steel AISI 304
 Diffusers..... stainless steel AISI 304
 Top plate..... stainless steel AISI 304
 Impellers..... stainless steel AISI 304
 Shaft sleeve stainless steel AISI 304
 Shaft stainless steel AISI 431
 Bearings..... aluminium oxide
 Shaft protection sleeve tungsten carbide
 Base plate cast iron JS 1030
 Lantern..... cast iron JL 1040
 Plug stainless steel AISI 431
 Elastomers..... EPDM
 Counter flange cast iron JL 1040
 Mechanical seal..... carbon/SiC

Materials used IN-VB-S 2 to IN-VB-S 60, IN-VC-S 15

Pump housing..... stainless steel AISI CF8M
 Sleeve..... stainless steel AISI 316 L
 Diffusers..... stainless steel AISI 316 L
 Top plate..... stainless steel AISI 316 L
 Impellers..... stainless steel AISI 316 L
 Shaft sleeve stainless steel AISI 316 L
 Shaft stainless steel AISI 329
 Bearings..... aluminium oxide
 Shaft protection sleeve tungsten carbide
 Base plate cast iron JS 1030
 Lantern..... cast iron JL 1040
 Plug stainless steel AISI 316 L
 Elastomers..... VITON
 Counter flange stainless steel AISI CF8M
 Mechanical seal..... carbon/SiC

Material used IN-VB 85/125

Pump housing..... stainless steel AISI CF8
 Sleeve..... stainless steel AISI 304
 Diffusers..... stainless steel AISI CF8
 Top plate..... stainless steel AISI CF8
 Impellers..... stainless steel AISI CF8
 Shaft sleeve stainless steel AISI 304
 Shaft stainless steel AISI 431
 Bearings..... aluminium oxide
 Shaft protection sleeve tungsten carbide
 Base plate cast iron JS 1030
 Lantern..... cast iron JL 1040
 Plug stainless steel AISI 304
 Elastomers..... EPDM
 Mechanical seal..... carbon/SiC

Material used IN-VB-S 85/125

Pump housing..... stainless steel AISI CF8M
 Sleeve..... stainless steel AISI 316 L
 Diffusers..... stainless steel AISI CF8M
 Top plate..... stainless steel AISI CF8M
 Impellers..... stainless steel AISI CF8M
 Shaft sleeve stainless steel AISI 316 L
 Shaft stainless steel AISI 329
 Bearings..... aluminium oxide
 Shaft protection sleeve tungsten carbide
 Base plate cast iron JS 1030
 Lantern..... cast iron JL 1040
 Plug stainless steel AISI 316 L
 Elastomers..... VITON
 Mechanical seal..... carbon/SiC

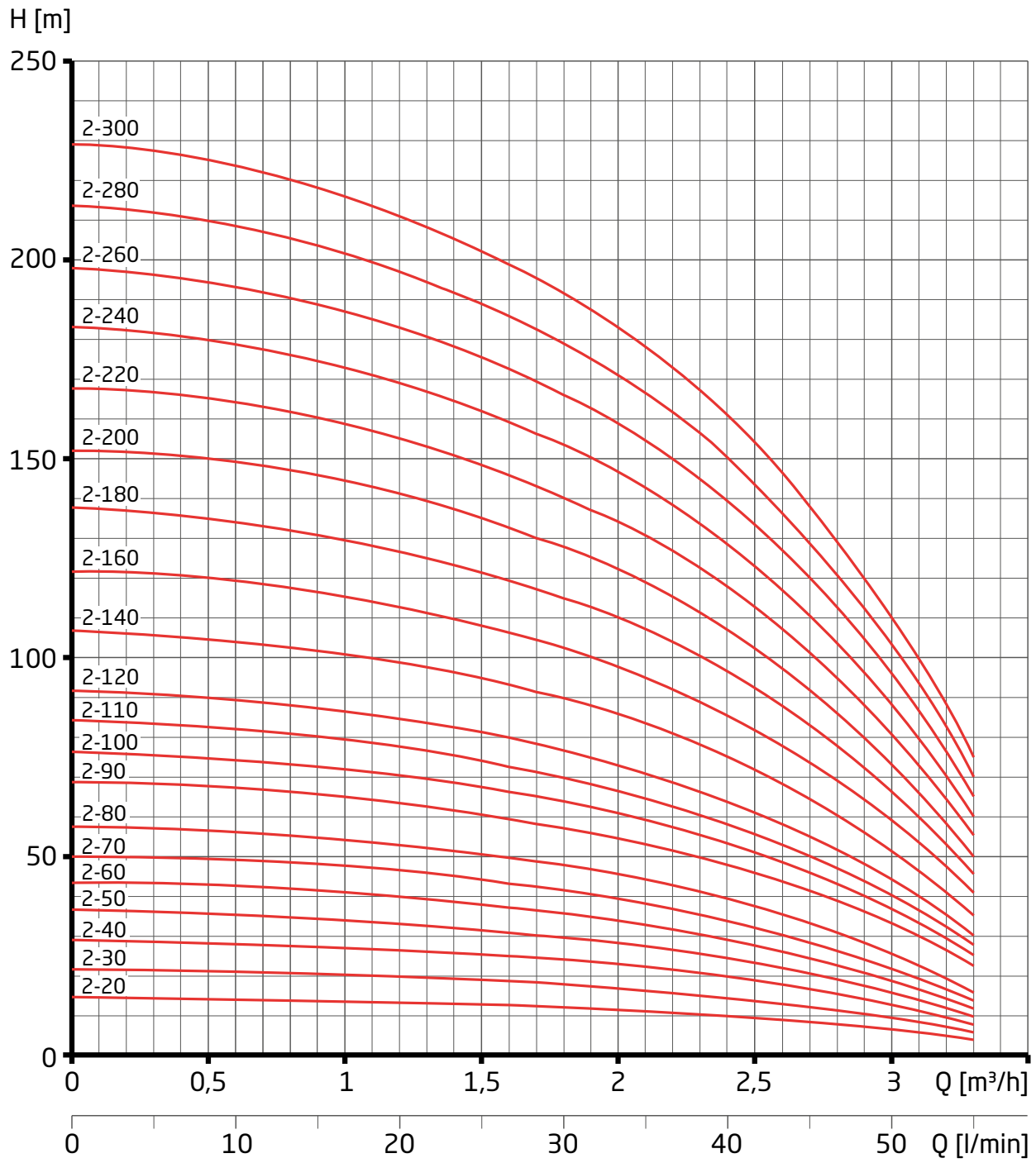
Motor data

P [kW]		0.37	0.55	0.75	1.10	1.50	2.20	3.00	4.00	5.50
I_N [A]	3~ 400V	0.95	1.20	1.80	2.30	3.20	4.60	5.80	7.40	10.00
I_{max} [A]	3~ 400V	1.40	1.50	2.40	3.10	4.60	6.20	7.50	9.80	15.00
P [kW]		7.50	11.00	15.00	18.50	22.00	30.00	37.00	45.00	
I_N [A]	3~ 400V	13.30	19.30	26.20	32.10	38.10	51.60	63.30	76.80	
I_{max} [A]	3~ 400V	18.10	27.00	36.70	40.30	53.70	59.30	72.80	88.30	

IN-VB 2



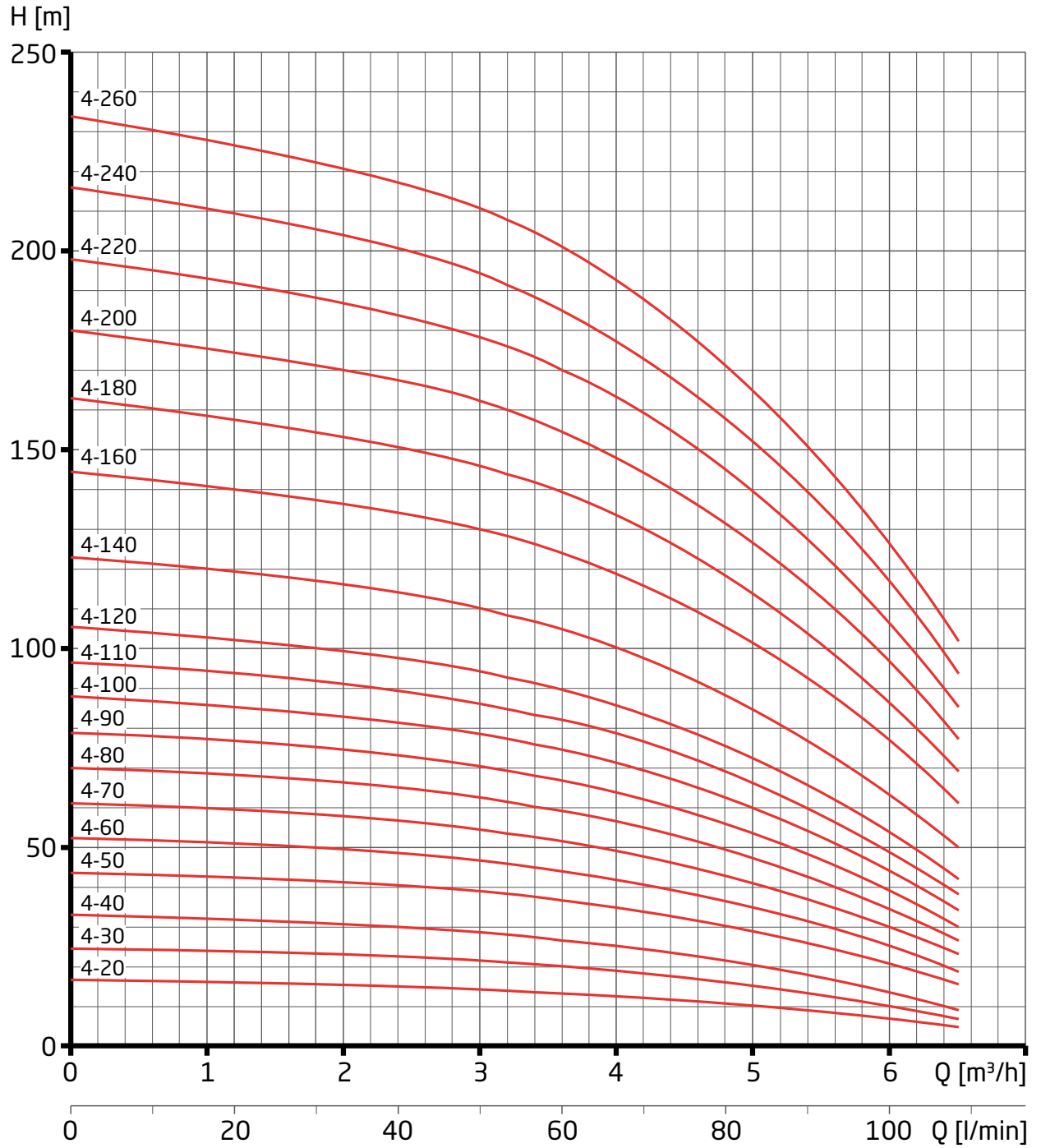
Characteristics



IN-VB 4



Characteristics

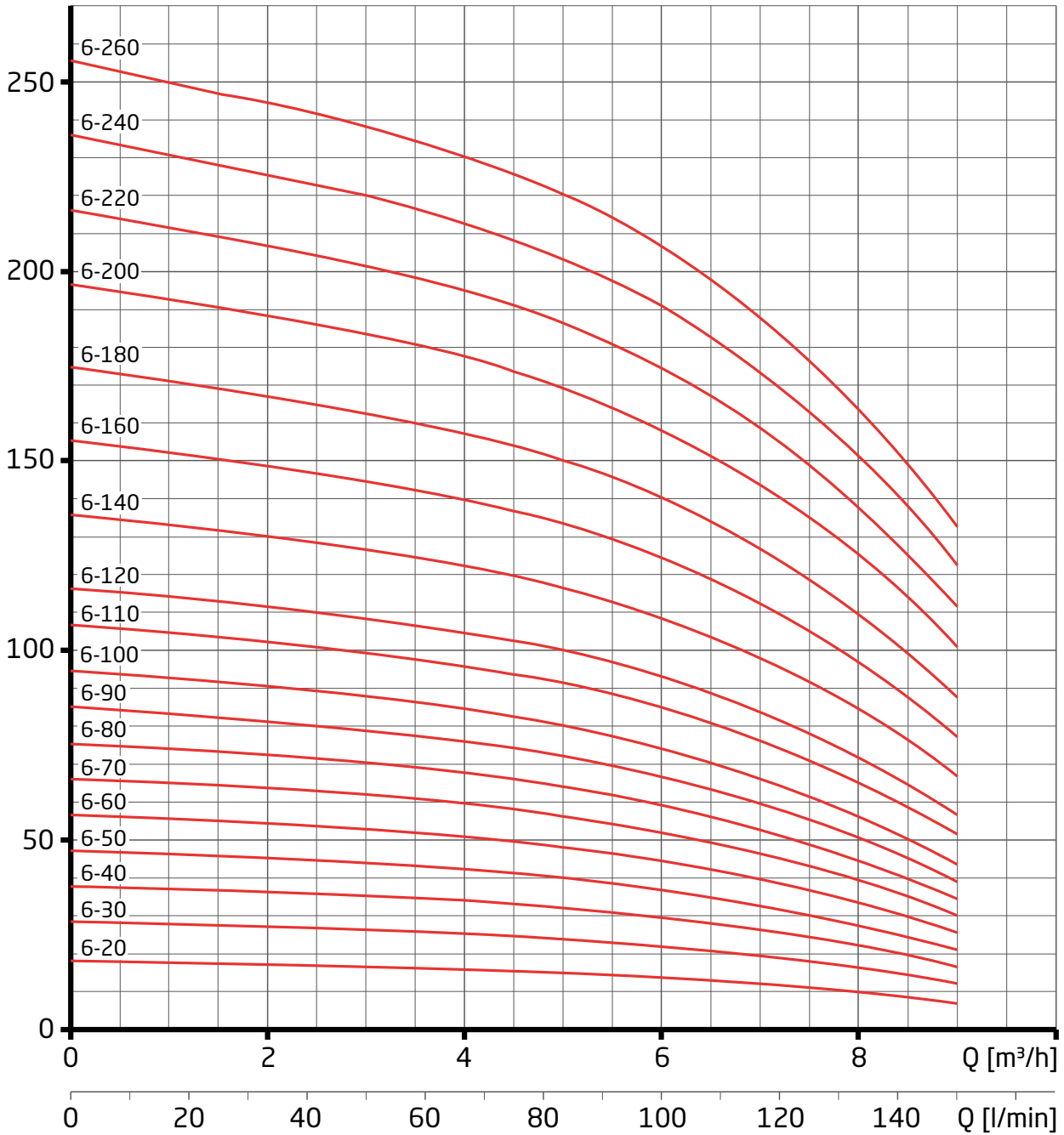


IN-VB 6



Characteristics

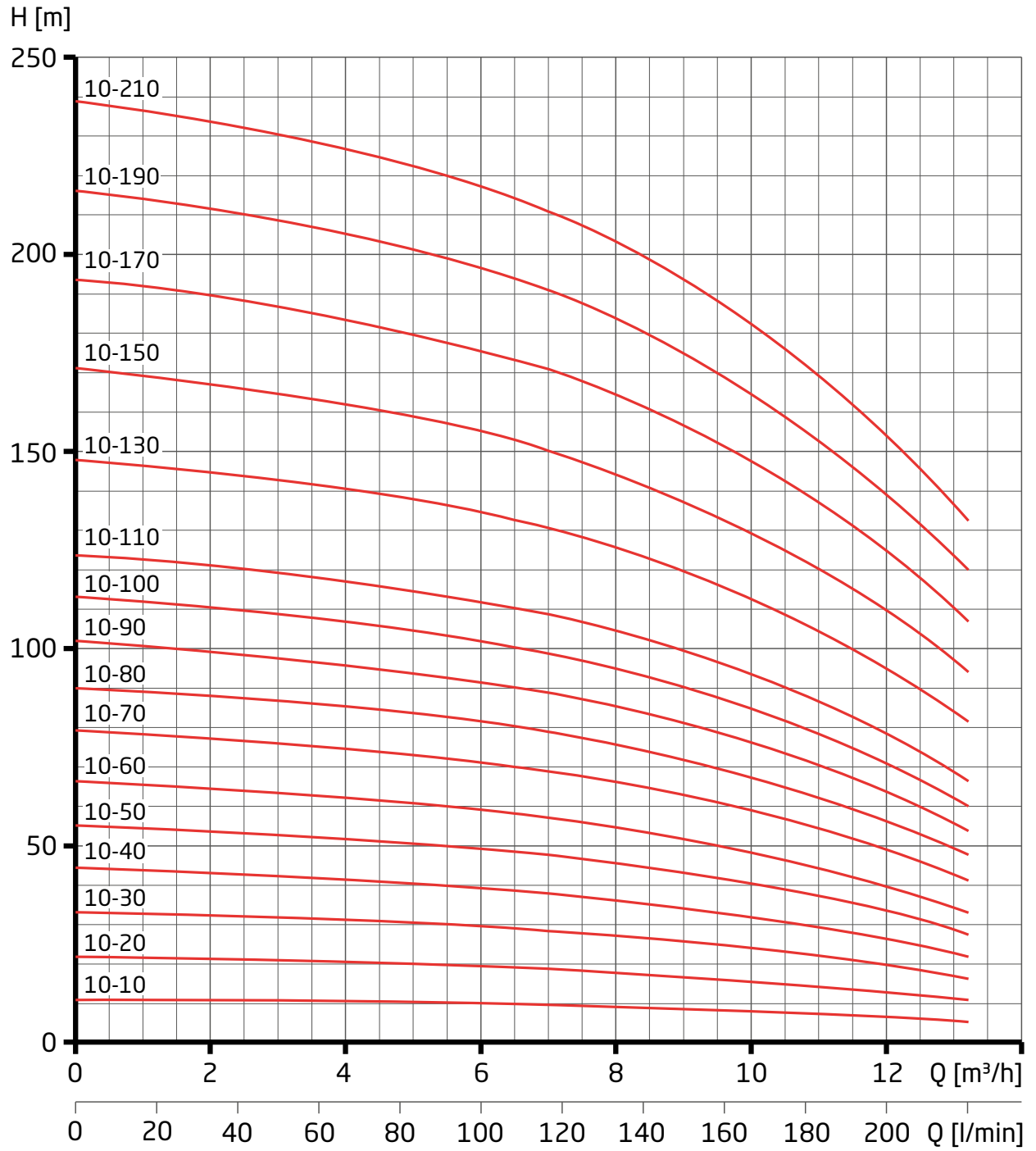
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IN-VB 10



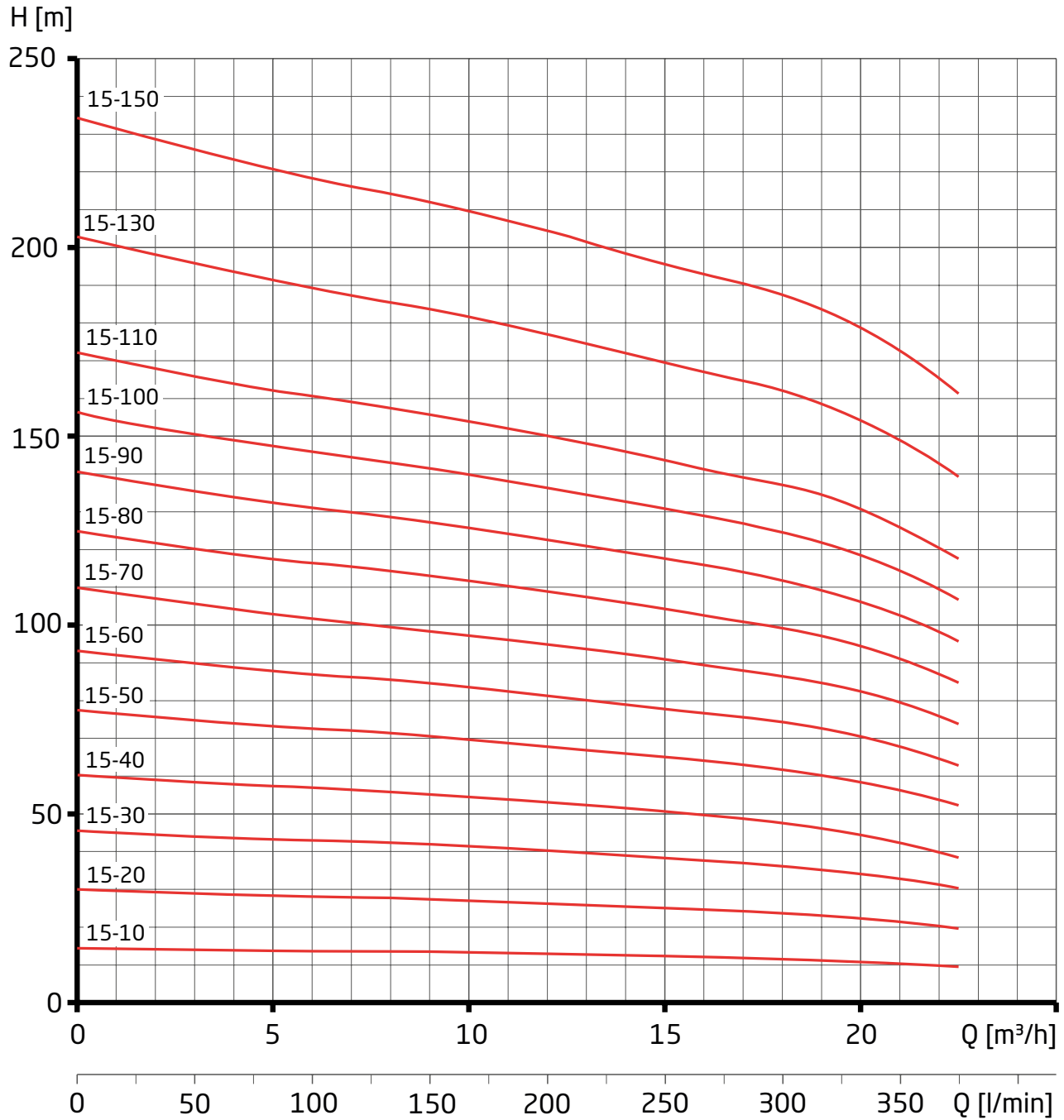
Characteristics



IN-VC 15



Characteristics

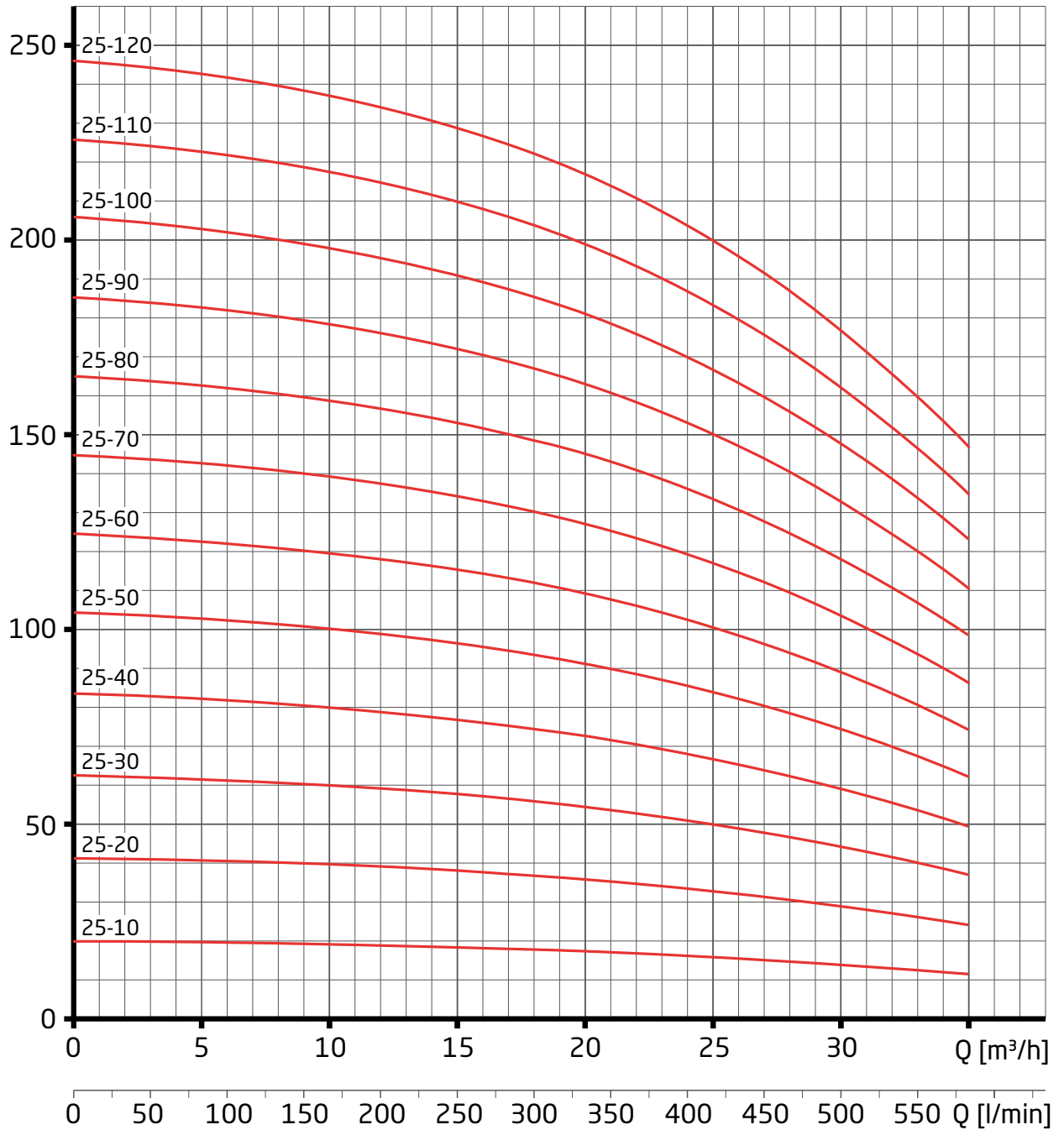


IN-VB 25



Characteristics

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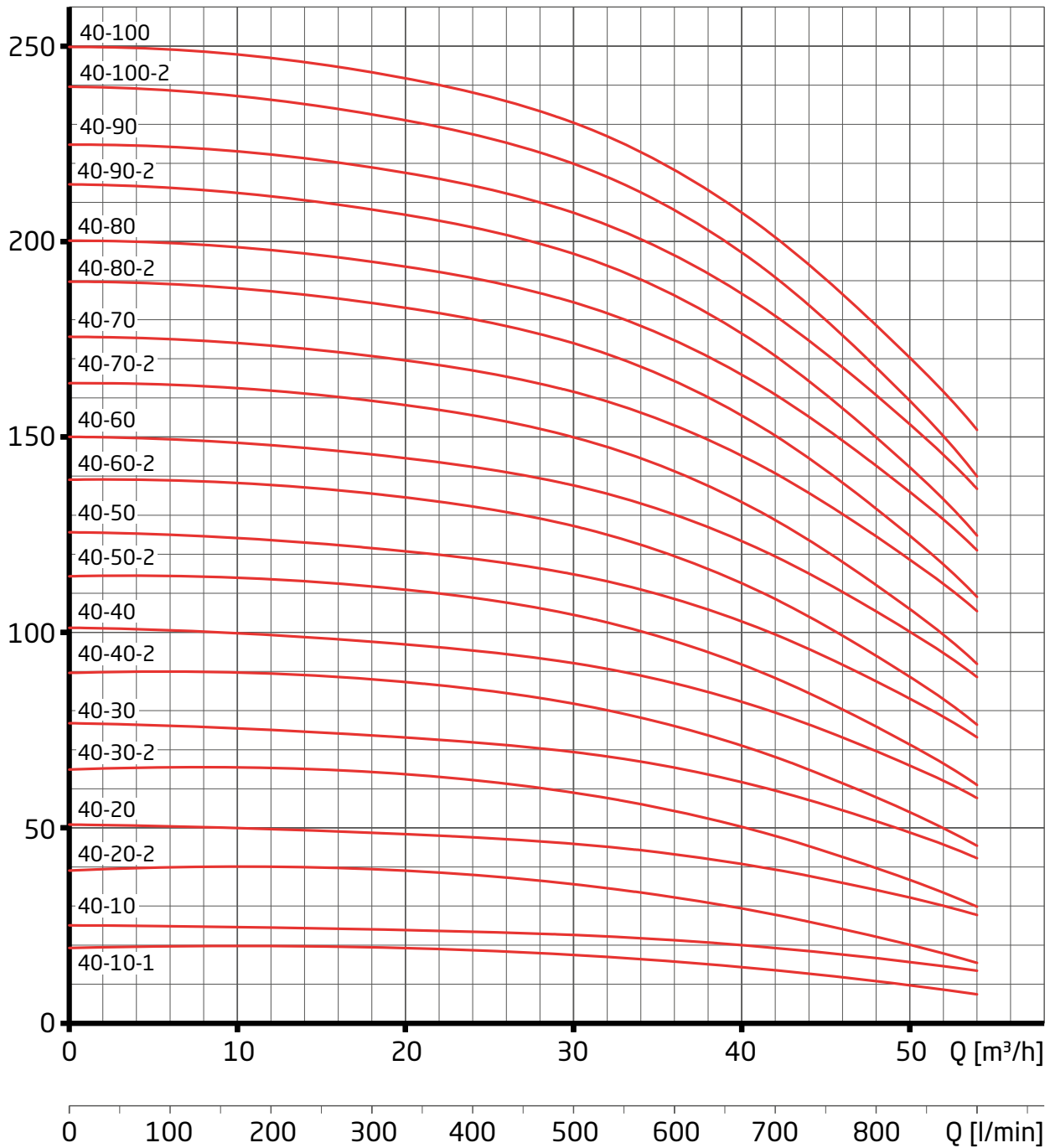


IN-VB 40



Characteristics

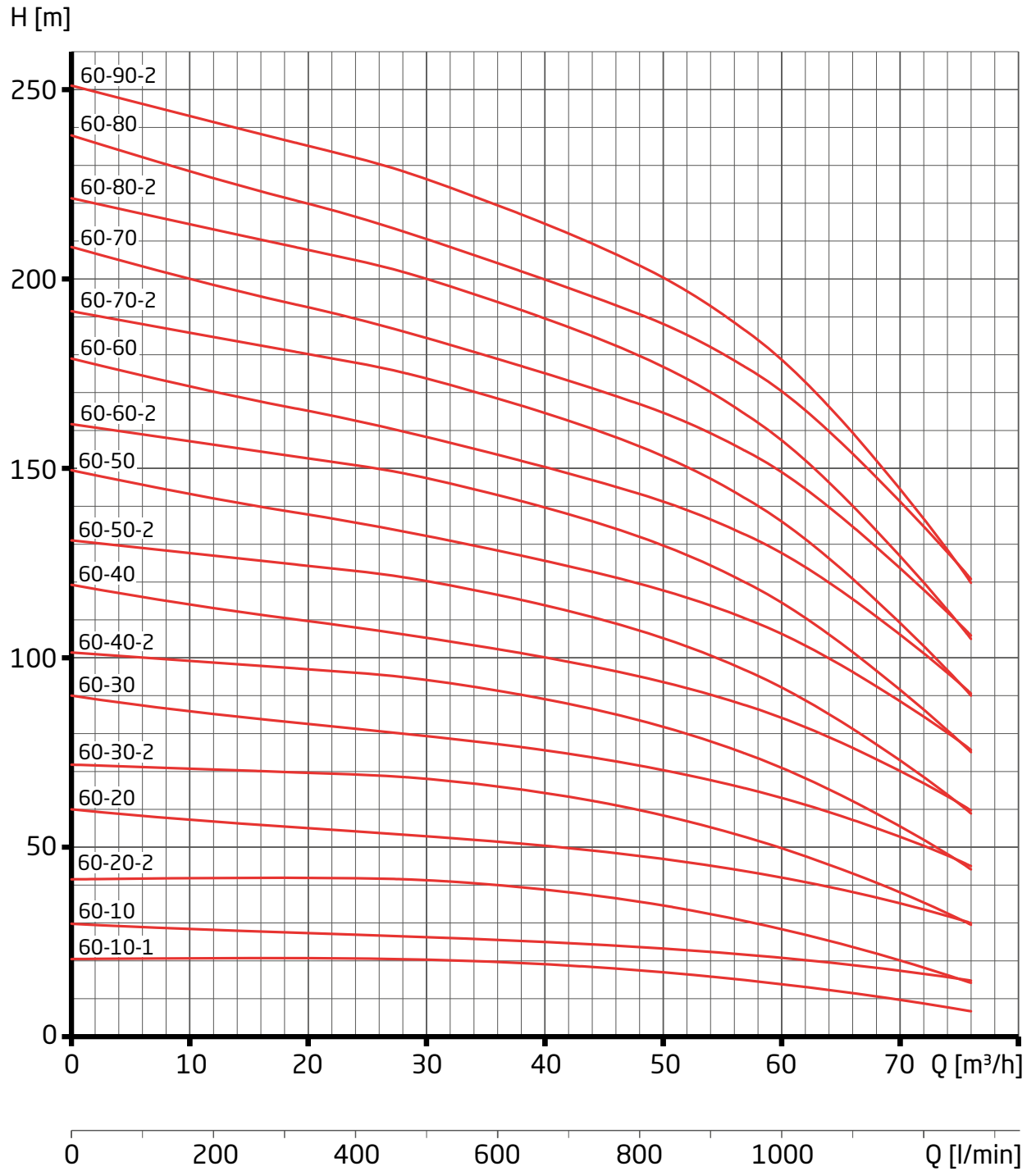
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IN-VB 60



Characteristics

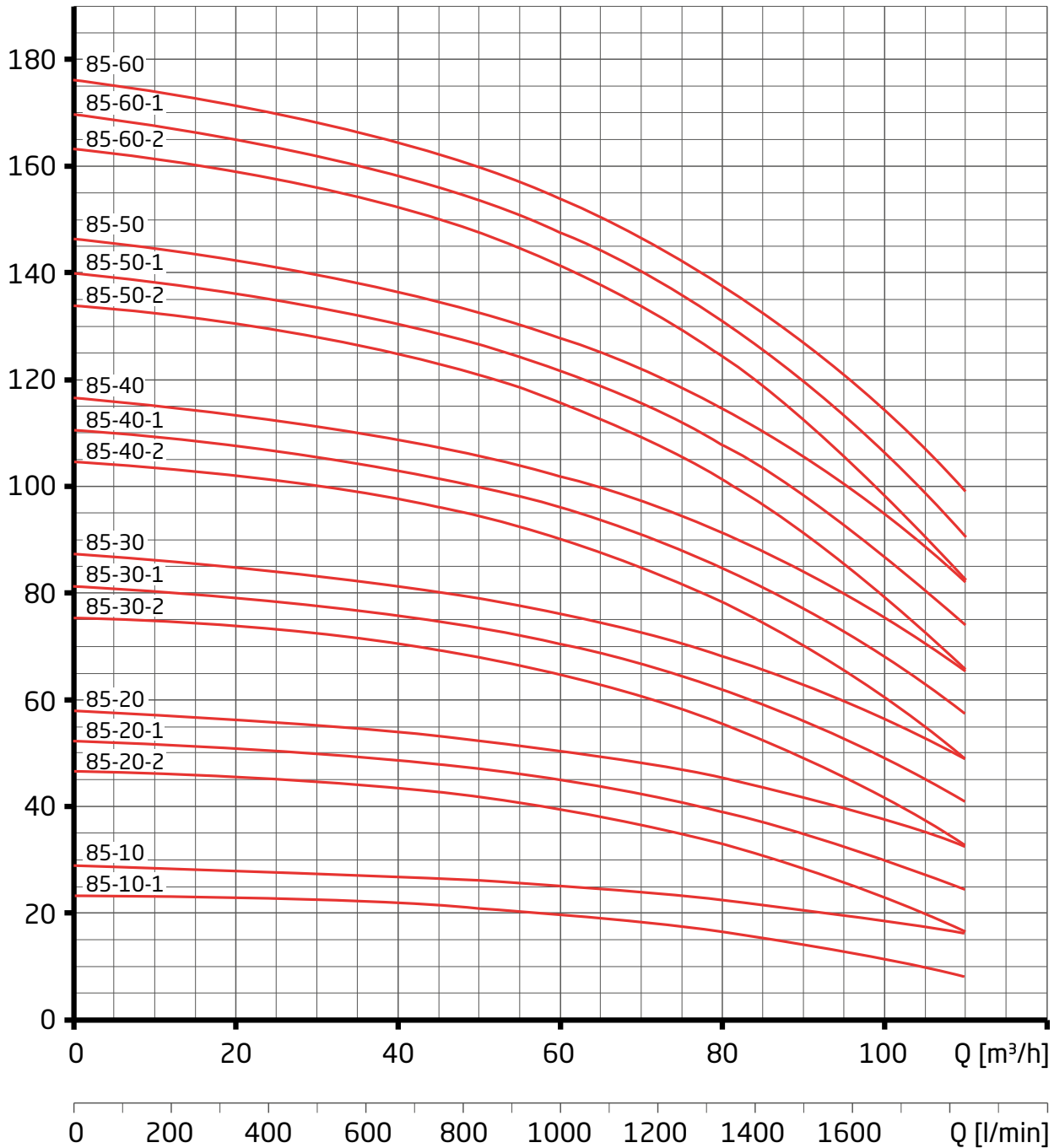


IN-VB 85



Characteristics

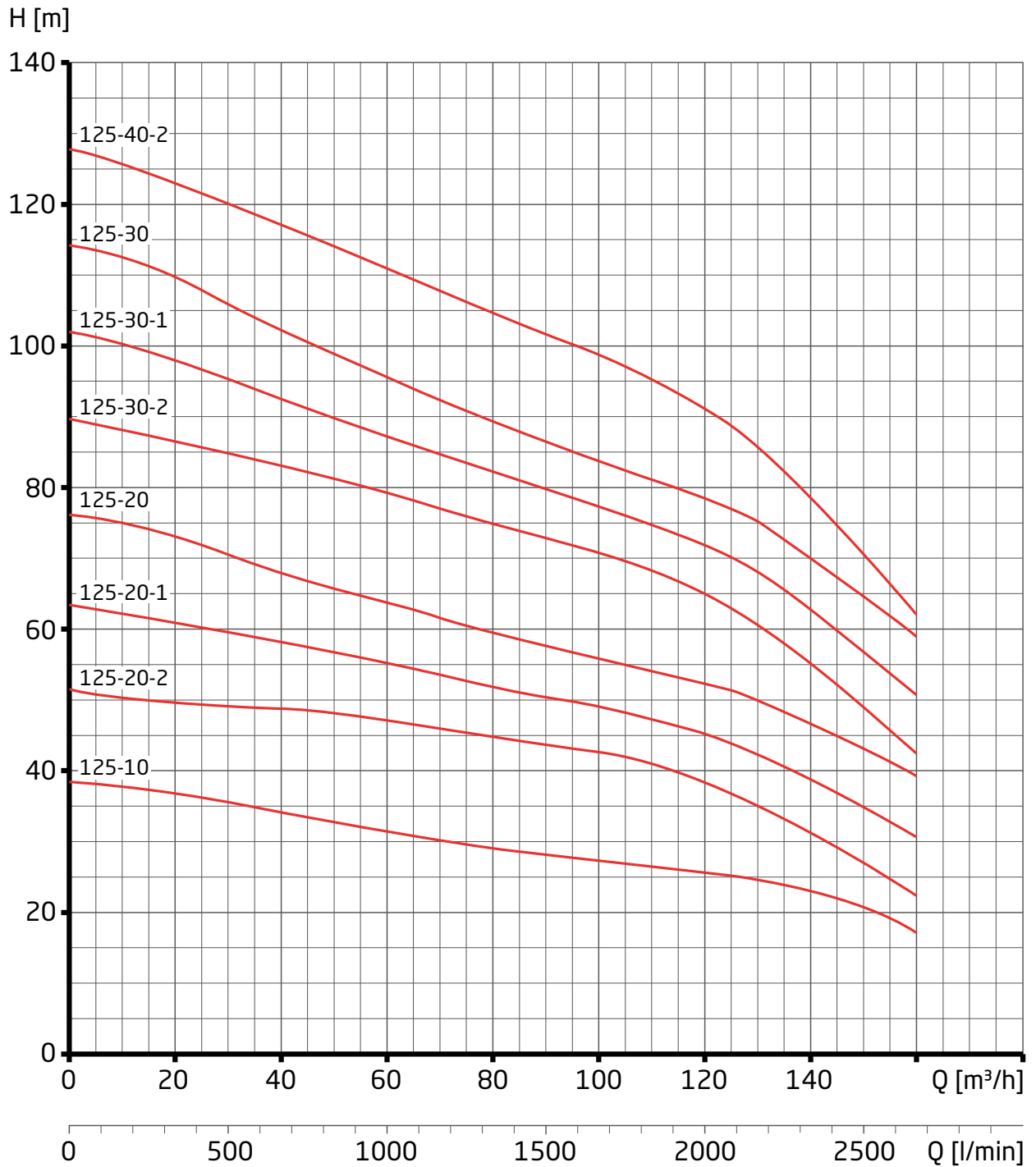
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IN-VB 125



Characteristics



IN-VB



Technical data

Type	Inlet connection	Outlet connection	Power output P ₂ (kW)	Rated current (A) 3~ 400 V	Approx. weight (kg)
IN-VB(-S) 2-20	Rp 1	Rp 1	0.37	0.95	18.00
IN-VB(-S) 2-30	Rp 1	Rp 1	0.37	0.95	18.00
IN-VB(-S) 2-40	Rp 1	Rp 1	0.37	0.95	18.00
IN-VB(-S) 2-50	Rp 1	Rp 1	0.37	0.95	19.00
IN-VB(-S) 2-60	Rp 1	Rp 1	0.55	1.20	19.00
IN-VB(-S) 2-70	Rp 1	Rp 1	0.55	1.20	20.00
IN-VB(-S) 2-80	Rp 1	Rp 1	0.55	1.20	20.00
IN-VB(-S) 2-90	Rp 1	Rp 1	0.75	1.80	27.00
IN-VB(-S) 2-100	Rp 1	Rp 1	0.75	1.80	27.00
IN-VB(-S) 2-110	Rp 1	Rp 1	1.10	2.30	28.00
IN-VB(-S) 2-120	Rp 1	Rp 1	1.10	2.30	28.00
IN-VB(-S) 2-140	Rp 1	Rp 1	1.10	2.30	29.00
IN-VB(-S) 2-160	Rp 1	Rp 1	1.50	3.20	36.00
IN-VB(-S) 2-180	Rp 1	Rp 1	1.50	3.20	36.00
IN-VB(-S) 2-200	Rp 1	Rp 1	1.50	3.20	37.00
IN-VB(-S) 2-220 F	DN 25	DN 25	2.20	4.60	46.00
IN-VB(-S) 2-240 F	DN 25	DN 25	2.20	4.60	46.00
IN-VB(-S) 2-260 F	DN 25	DN 25	2.20	4.60	47.00
IN-VB(-S) 2-280 F	DN 25	DN 25	2.20	4.60	48.00
IN-VB(-S) 2-300 F	DN 25	DN 25	2.20	4.60	64.00
IN-VB(-S) 4-20	Rp 1 ¼	Rp 1 ¼	0.37	0.95	18.00
IN-VB(-S) 4-30	Rp 1 ¼	Rp 1 ¼	0.55	1.20	18.00
IN-VB(-S) 4-40	Rp 1 ¼	Rp 1 ¼	0.55	1.20	19.00
IN-VB(-S) 4-50	Rp 1 ¼	Rp 1 ¼	0.75	1.80	25.00
IN-VB(-S) 4-60	Rp 1 ¼	Rp 1 ¼	1.10	2.30	26.00
IN-VB(-S) 4-70	Rp 1 ¼	Rp 1 ¼	1.10	2.30	26.00
IN-VB(-S) 4-80	Rp 1 ¼	Rp 1 ¼	1.50	3.20	32.00
IN-VB(-S) 4-90	Rp 1 ¼	Rp 1 ¼	1.50	3.20	33.00
IN-VB(-S) 4-100	Rp 1 ¼	Rp 1 ¼	1.50	3.20	33.00
IN-VB(-S) 4-110	Rp 1 ¼	Rp 1 ¼	2.20	4.60	34.00
IN-VB(-S) 4-120	Rp 1 ¼	Rp 1 ¼	2.20	4.60	35.00
IN-VB(-S) 4-140	Rp 1 ¼	Rp 1 ¼	2.20	4.60	36.00
IN-VB(-S) 4-160	Rp 1 ¼	Rp 1 ¼	3.00	5.80	47.00
IN-VB(-S) 4-180 F	DN 32	DN 32	3.00	5.80	53.00
IN-VB(-S) 4-200 F	DN 32	DN 32	3.00	5.80	53.00
IN-VB(-S) 4-220 F	DN 32	DN 32	4.00	7.40	61.00
IN-VB(-S) 4-240 F	DN 32	DN 32	4.00	7.40	62.00
IN-VB(-S) 4-260 F	DN 32	DN 32	4.00	7.40	78.00
IN-VB(-S) 6-20	Rp 1 ¼	Rp 1 ¼	0.37	0.95	18.00
IN-VB(-S) 6-30	Rp 1 ¼	Rp 1 ¼	0.75	1.80	25.00
IN-VB(-S) 6-40	Rp 1 ¼	Rp 1 ¼	1.10	2.30	25.00
IN-VB(-S) 6-50	Rp 1 ¼	Rp 1 ¼	1.10	2.30	26.00
IN-VB(-S) 6-60	Rp 1 ¼	Rp 1 ¼	1.50	3.20	32.00
IN-VB(-S) 6-70	Rp 1 ¼	Rp 1 ¼	1.50	3.20	32.00
IN-VB(-S) 6-80	Rp 1 ¼	Rp 1 ¼	2.20	4.60	34.00
IN-VB(-S) 6-90	Rp 1 ¼	Rp 1 ¼	2.20	4.60	34.00
IN-VB(-S) 6-100	Rp 1 ¼	Rp 1 ¼	2.20	4.60	35.00
IN-VB(-S) 6-110	Rp 1 ¼	Rp 1 ¼	3.00	5.80	45.00
IN-VB(-S) 6-120	Rp 1 ¼	Rp 1 ¼	3.00	5.80	46.00
IN-VB(-S) 6-140	Rp 1 ¼	Rp 1 ¼	3.00	5.80	47.00
IN-VB(-S) 6-160	Rp 1 ¼	Rp 1 ¼	4.00	7.40	51.00
IN-VB(-S) 6-180 F	DN 32	DN 32	4.00	7.40	62.00
IN-VB(-S) 6-200 F	DN 32	DN 32	5.50	10.00	97.00
IN-VB(-S) 6-220 F	DN 32	DN 32	5.50	10.00	98.00
IN-VB(-S) 6-240 F	DN 32	DN 32	5.50	10.00	99.00
IN-VB(-S) 6-260 F	DN 32	DN 32	5.50	10.00	100.00

IN-VB/IN-VC



Technical data

Type	Inlet connection	Outlet connection	Power output P ₂ (kW)	Rated current (A) 3~ 400 V	Approx. weight (kg)
IN-VB(-S) 10-10	Rp 1 ½	Rp 1 ½	0.75	1.80	32.00
IN-VB(-S) 10-20	Rp 1½	Rp 1 ½	0.75	1.80	33.00
IN-VB(-S) 10-30	Rp 1 ½	Rp 1 ½	1.10	2.30	36.00
IN-VB(-S) 10-40	Rp 1 ½	Rp 1 ½	1.50	3.20	41.00
IN-VB(-S) 10-50	Rp 1 ½	Rp 1 ½	2.20	4.60	45.00
IN-VB(-S) 10-60	Rp 1 ½	Rp 1 ½	2.20	4.60	45.00
IN-VB(-S) 10-70	Rp 1 ½	Rp 1 ½	3.00	5.80	54.00
IN-VB(-S) 10-80	Rp 1 ½	Rp 1 ½	3.00	5.80	55.00
IN-VB(-S) 10-90	Rp 1 ½	Rp 1 ½	4.00	7.40	62.00
IN-VB(-S) 10-100	Rp 1 ½	Rp 1 ½	4.00	7.40	63.00
IN-VB(-S) 10-110	Rp 1 ½	Rp 1 ½	4.00	7.40	64.00
IN-VB(-S) 10-130	Rp 1 ½	Rp 1 ½	5.50	10.00	104.00
IN-VB(-S) 10-150 F	DN 40	DN 40	5.50	10.00	108.00
IN-VB(-S) 10-170 F	DN 40	DN 40	7.50	13.30	116.00
IN-VB(-S) 10-190 F	DN 40	DN 40	7.50	13.30	118.00
IN-VB(-S) 10-210 F	DN 40	DN 40	7.50	13.30	120.00
IN-VC(-S) 15-10 F	DN 50	DN 50	1.10	2.30	39.00
IN-VC(-S) 15-20 F	DN 50	DN 50	2.20	4.60	49.00
IN-VC(-S) 15-30 F	DN 50	DN 50	3.00	5.80	58.00
IN-VC(-S) 15-40 F	DN 50	DN 50	4.00	7.40	68.00
IN-VC(-S) 15-50 F	DN 50	DN 50	5.50	10.00	108.00
IN-VC(-S) 15-60 F	DN 50	DN 50	7.50	13.30	109.00
IN-VC(-S) 15-70 F	DN 50	DN 50	7.50	13.30	110.00
IN-VC(-S) 15-80 F	DN 50	DN 50	11.00	19.30	189.00
IN-VC(-S) 15-90 F	DN 50	DN 50	11.00	19.30	196.00
IN-VC(-S) 15-100 F	DN 50	DN 50	11.00	19.30	197.00
IN-VC(-S) 15-110 F	DN 50	DN 50	11.00	19.30	198.00
IN-VC(-S) 15-130 F	DN 50	DN 50	15.00	26.20	230.00
IN-VC(-S) 15-150 F	DN 50	DN 50	15.00	26.20	235.00
IN-VB(-S) 25-10 F	DN 65	DN 65	2.20	4.60	70.00
IN-VB(-S) 25-20 F	DN 65	DN 65	4.00	7.40	85.00
IN-VB(-S) 25-30 F	DN 65	DN 65	5.50	10.00	114.00
IN-VB(-S) 25-40 F	DN 65	DN 65	7.50	13.30	121.00
IN-VB(-S) 25-50 F	DN 65	DN 65	11.00	19.30	203.00
IN-VB(-S) 25-60 F	DN 65	DN 65	11.00	19.30	206.00
IN-VB(-S) 25-70 F	DN 65	DN 65	15.00	26.20	218.00
IN-VB(-S) 25-80 F	DN 65	DN 65	15.00	26.20	218.00
IN-VB(-S) 25-90 F	DN 65	DN 65	15.00	26.20	231.00
IN-VB(-S) 25-100 F	DN 65	DN 65	18.50	32.10	251.00
IN-VB(-S) 25-110 F	DN 65	DN 65	18.50	32.10	253.00
IN-VB(-S) 25-120 F	DN 65	DN 65	22.00	38.10	294.00
IN-VB(-S) 40-10-1 F	DN 80	DN 80	3.00	5.80	92.00
IN-VB(-S) 40-10 F	DN 80	DN 80	4.00	7.40	98.00
IN-VB(-S) 40-20- 2 F	DN 80	DN 80	5.50	10.00	129.00
IN-VB(-S) 40-20 F	DN 80	DN 80	7.50	13.30	133.00
IN-VB(-S) 40-30-2 F	DN 80	DN 80	11.00	19.30	214.00
IN-VB(-S) 40-30 F	DN 80	DN 80	11.00	19.30	214.00
IN-VB(-S) 40-40-2 F	DN 80	DN 80	15.00	26.20	230.00
IN-VB(-S) 40-40 F	DN 80	DN 80	15.00	26.20	230.00
IN-VB(-S) 40-50-2 F	DN 80	DN 80	18.50	32.10	261.00
IN-VB(-S) 40-50 F	DN 80	DN 80	18.50	32.10	261.00
IN-VB(-S) 40-60-2 F	DN 80	DN 80	18.50	32.10	264.00
IN-VB(-S) 40-60 F	DN 80	DN 80	22.00	38.10	300.00

IN-VB



Technical data

Type	Inlet connection	Outlet connection	Power output P ₂ (kW)	Rated current (A) 3~ 400 V	Approx. weight (kg)
IN-VB(-S) 40-70-2 F	DN 80	DN 80	22.00	38.10	308.00
IN-VB(-S) 40-70 F	DN 80	DN 80	30.00	51.60	374.00
IN-VB(-S) 40-80-2 F	DN 80	DN 80	30.00	51.60	397.00
IN-VB(-S) 40-80 F	DN 80	DN 80	30.00	51.60	397.00
IN-VB(-S) 40-90-2 F	DN 80	DN 80	30.00	51.60	402.00
IN-VB(-S) 40-90 F	DN 80	DN 80	37.00	63.30	406.00
IN-VB(-S) 40-100-2 F	DN 80	DN 80	37.00	63.30	410.00
IN-VB(-S) 40-100 F	DN 80	DN 80	37.00	63.30	410.00
IN-VB(-S) 60-10-1 F	DN 100	DN 100	4.00	7.40	102.00
IN-VB(-S) 60-10 F	DN 100	DN 100	5.50	10.00	130.00
IN-VB(-S) 60-20-2 F	DN 100	DN 100	7.50	13.30	138.00
IN-VB(-S) 60-20 F	DN 100	DN 100	11.00	19.30	215.00
IN-VB(-S) 60-30-2 F	DN 100	DN 100	15.00	26.20	228.00
IN-VB(-S) 60-30 F	DN 100	DN 100	18.50	32.10	245.00
IN-VB(-S) 60-40-2 F	DN 100	DN 100	18.50	32.10	251.00
IN-VB(-S) 60-40 F	DN 100	DN 100	22.00	38.10	287.00
IN-VB(-S) 60-50-2 F	DN 100	DN 100	22.00	38.10	300.00
IN-VB(-S) 60-50 F	DN 100	DN 100	30.00	51.60	362.00
IN-VB(-S) 60-60-2 F	DN 100	DN 100	30.00	51.60	370.00
IN-VB(-S) 60-60 F	DN 100	DN 100	30.00	51.60	376.00
IN-VB(-S) 60-70-2 F	DN 100	DN 100	37.00	63.30	384.00
IN-VB(-S) 60-70 F	DN 100	DN 100	37.00	63.30	384.00
IN-VB(-S) 60-80-2 F	DN 100	DN 100	37.00	63.30	407.00
IN-VB(-S) 60-80 F	DN 100	DN 100	45.00	76.80	484.00
IN-VB(-S) 60-90-2 F	DN 100	DN 100	45.00	76.80	488.00
IN-VB(-S) 85-10-1 F	DN 100	DN 100	5.50	10.00	126.00
IN-VB(-S) 85-10 F	DN 100	DN 100	7.50	13.30	155.00
IN-VB(-S) 85-20-2 F	DN 100	DN 100	11.00	19.30	208.00
IN-VB(-S) 85-20-1 F	DN 100	DN 100	15.00	26.20	214.00
IN-VB(-S) 85-20 F	DN 100	DN 100	15.00	26.20	214.00
IN-VB(-S) 85-30-2 F	DN 100	DN 100	18.50	32.10	238.00
IN-VB(-S) 85-30-1 F	DN 100	DN 100	22.00	38.10	274.00
IN-VB(-S) 85-30 F	DN 100	DN 100	22.00	38.10	274.00
IN-VB(-S) 85-40-2 F	DN 100	DN 100	30.00	51.60	376.00
IN-VB(-S) 85-40-1 F	DN 100	DN 100	30.00	51.60	376.00
IN-VB(-S) 85-40 F	DN 100	DN 100	30.00	51.60	376.00
IN-VB(-S) 85-50-2 F	DN 100	DN 100	37.00	63.30	406.00
IN-VB(-S) 85-50-1 F	DN 100	DN 100	37.00	63.30	406.00
IN-VB(-S) 85-50 F	DN 100	DN 100	37.00	63.30	406.00
IN-VB(-S) 85-60-2 F	DN 100	DN 100	45.00	76.80	564.00
IN-VB(-S) 85-60-1 F	DN 100	DN 100	45.00	76.80	564.00
IN-VB(-S) 85-60 F	DN 100	DN 100	45.00	76.80	564.00
IN-VB(-S) 125-10 F	DN 125	DN 125	15.00	26.20	284.00
IN-VB(-S) 125-20-2 F	DN 125	DN 125	18.50	32.10	311.00
IN-VB(-S) 125-20-1 F	DN 125	DN 125	22.00	38.10	349.00
IN-VB(-S) 125-20 F	DN 125	DN 125	30.00	51.60	445.00
IN-VB(-S) 125-30-2 F	DN 125	DN 125	30.00	51.60	462.00
IN-VB(-S) 125-30-1 F	DN 125	DN 125	37.00	63.30	482.00
IN-VB(-S) 125-30 F	DN 125	DN 125	37.00	63.30	482.00
IN-VB(-S) 125-40-2 F	DN 125	DN 125	45.00	76.80	555.00



Order information

Type	Article no.	Type	Article no.
IN-VB 2-20	624.0202.067	IN-VB-S 2-20	624.0202.967
IN-VB 2-30	624.0203.067	IN-VB-S 2-30	624.0203.967
IN-VB 2-40	624.0204.067	IN-VB-S 2-40	624.0204.967
IN-VB 2-50	624.0205.067	IN-VB-S 2-50	624.0205.967
IN-VB 2-60	624.0206.067	IN-VB-S 2-60	624.0206.967
IN-VB 2-70	624.0207.067	IN-VB-S 2-70	624.0207.967
IN-VB 2-80	624.0208.067	IN-VB-S 2-80	624.0208.967
IN-VB 2-90	624.0209.067	IN-VB-S 2-90	624.0209.967
IN-VB 2-100	624.0210.067	IN-VB-S 2-100	624.0210.967
IN-VB 2-110	624.0211.067	IN-VB-S 2-110	624.0211.967
IN-VB 2-120	624.0212.067	IN-VB-S 2-120	624.0212.967
IN-VB 2-140	624.0214.067	IN-VB-S 2-140	624.0214.967
IN-VB 2-160	624.0216.067	IN-VB-S 2-160	624.0216.967
IN-VB 2-180	624.0218.067	IN-VB-S 2-180	624.0218.967
IN-VB 2-200	624.0220.067	IN-VB-S 2-200	624.0220.967
IN-VB 2-220 F	624.0222.067	IN-VB-S 2-220 F	624.0222.967
IN-VB 2-240 F	624.0224.067	IN-VB-S 2-240 F	624.0224.967
IN-VB 2-260 F	624.0226.067	IN-VB-S 2-260 F	624.0226.967
IN-VB 2-280 F	624.0228.067	IN-VB-S 2-280 F	624.0228.967
IN-VB 2-300 F	624.0230.067	IN-VB-S 2-300 F	624.0230.967
IN-VB 4-20	624.0402.067	IN-VB-S 4-20	624.0402.967
IN-VB 4-30	624.0403.067	IN-VB-S 4-30	624.0403.967
IN-VB 4-40	624.0404.067	IN-VB-S 4-40	624.0404.967
IN-VB 4-50	624.0405.067	IN-VB-S 4-50	624.0405.967
IN-VB 4-60	624.0406.067	IN-VB-S 4-60	624.0406.967
IN-VB 4-70	624.0407.067	IN-VB-S 4-70	624.0407.967
IN-VB 4-80	624.0408.067	IN-VB-S 4-80	624.0408.967
IN-VB 4-90	624.0409.067	IN-VB-S 4-90	624.0409.967
IN-VB 4-100	624.0410.067	IN-VB-S 4-100	624.0410.967
IN-VB 4-110	624.0411.067	IN-VB-S 4-110	624.0411.967
IN-VB 4-120	624.0412.067	IN-VB-S 4-120	624.0412.967
IN-VB 4-140	624.0414.067	IN-VB-S 4-140	624.0414.967
IN-VB 4-160	624.0416.067	IN-VB-S 4-160	624.0416.967
IN-VB 4-180 F	624.0418.067	IN-VB-S 4-180 F	624.0418.967
IN-VB 4-200 F	624.0420.067	IN-VB-S 4-200 F	624.0420.967
IN-VB 4-220 F	624.0422.067	IN-VB-S 4-220 F	624.0422.967
IN-VB 4-240 F	624.0424.067	IN-VB-S 4-240 F	624.0424.967
IN-VB 4-260 F	624.0426.067	IN-VB-S 4-260 F	624.0426.967

IN-VB/IN-VC



Order information

Type	Article no.	Type	Article no.
IN-VB 6-20	624.0602.067	IN-VB-S 6-20	624.0602.967
IN-VB 6-30	624.0603.067	IN-VB-S 6-30	624.0603.967
IN-VB 6-40	624.0604.067	IN-VB-S 6-40	624.0604.967
IN-VB 6-50	624.0605.067	IN-VB-S 6-50	624.0605.967
IN-VB 6-60	624.0606.067	IN-VB-S 6-60	624.0606.967
IN-VB 6-70	624.0607.067	IN-VB-S 6-70	624.0607.967
IN-VB 6-80	624.0608.067	IN-VB-S 6-80	624.0608.967
IN-VB 6-90	624.0609.067	IN-VB-S 6-90	624.0609.967
IN-VB 6-100	624.0610.067	IN-VB-S 6-100	624.0610.967
IN-VB 6-110	624.0611.067	IN-VB-S 6-110	624.0611.967
IN-VB 6-120	624.0612.067	IN-VB-S 6-120	624.0612.967
IN-VB 6-140	624.0614.067	IN-VB-S 6-140	624.0614.967
IN-VB 6-160	624.0616.067	IN-VB-S 6-160	624.0616.967
IN-VB 6-180 F	624.0618.067	IN-VB-S 6-180 F	624.0618.967
IN-VB 6-200 F	624.0620.067	IN-VB-S 6-200 F	624.0620.967
IN-VB 6-220 F	624.0622.067	IN-VB-S 6-220 F	624.0622.967
IN-VB 6-240 F	624.0624.067	IN-VB-S 6-240 F	624.0624.967
IN-VB 6-260 F	624.0626.067	IN-VB-S 6-260 F	624.0626.967
IN-VB 10-10	624.1001.067	IN-VB-S 10-10	624.1001.967
IN-VB 10-20	624.1002.067	IN-VB-S 10-20	624.1002.967
IN-VB 10-30	624.1003.067	IN-VB-S 10-30	624.1003.967
IN-VB 10-40	624.1004.067	IN-VB-S 10-40	624.1004.967
IN-VB 10-50	624.1005.067	IN-VB-S 10-50	624.1005.967
IN-VB 10-60	624.1006.067	IN-VB-S 10-60	624.1006.967
IN-VB 10-70	624.1007.067	IN-VB-S 10-70	624.1007.967
IN-VB 10-80	624.1008.067	IN-VB-S 10-80	624.1008.967
IN-VB 10-90	624.1009.067	IN-VB-S 10-90	624.1009.967
IN-VB 10-100	624.1010.067	IN-VB-S 10-100	624.1010.967
IN-VB 10-110	624.1011.067	IN-VB-S 10-110	624.1011.967
IN-VB 10-130	624.1013.067	IN-VB-S 10-130	624.1013.967
IN-VB 10-150 F	624.1015.067	IN-VB-S 10-150 F	624.1015.967
IN-VB 10-170 F	624.1017.067	IN-VB-S 10-170 F	624.1017.967
IN-VB 10-190 F	624.1019.067	IN-VB-S 10-190 F	624.1019.967
IN-VB 10-210 F	624.1021.067	IN-VB-S 10-210 F	624.1021.967
IN-VC 15-10 F	627.1501.067	IN-VC-S 15-10 F	627.1501.967
IN-VC 15-20 F	627.1502.067	IN-VC-S 15-20 F	627.1502.967
IN-VC 15-30 F	627.1503.067	IN-VC-S 15-30 F	627.1503.967
IN-VC 15-40 F	627.1504.067	IN-VC-S 15-40 F	627.1504.967
IN-VC 15-50 F	627.1505.067	IN-VC-S 15-50 F	627.1505.967
IN-VC 15-60 F	627.1506.067	IN-VC-S 15-60 F	627.1506.967
IN-VC 15-70 F	627.1507.067	IN-VC-S 15-70 F	627.1507.967
IN-VC 15-80 F	627.1508.067	IN-VC-S 15-80 F	627.1508.967
IN-VC 15-90 F	627.1509.067	IN-VC-S 15-90 F	627.1509.967
IN-VC 15-100 F	627.1510.067	IN-VC-S 15-100 F	627.1510.967
IN-VC 15-110 F	627.1511.067	IN-VC-S 15-110 F	627.1511.967
IN-VC 15-130 F	627.1513.067	IN-VC-S 15-130 F	627.1513.967
IN-VC 15-150 F	627.1515.067	IN-VC-S 15-150 F	627.1515.967



Order information

Type	Article no.	Type	Article no.
IN-VB 25-10 F	624.2501.067	IN-VB-S 25-10 F	624.2501.967
IN-VB 25-20 F	624.2502.067	IN-VB-S 25-20 F	624.2502.967
IN-VB 25-30 F	624.2503.067	IN-VB-S 25-30 F	624.2503.967
IN-VB 25-40 F	624.2504.067	IN-VB-S 25-40 F	624.2504.967
IN-VB 25-50 F	624.2505.067	IN-VB-S 25-50 F	624.2505.967
IN-VB 25-60 F	624.2506.067	IN-VB-S 25-60 F	624.2506.967
IN-VB 25-70 F	624.2507.067	IN-VB-S 25-70 F	624.2507.967
IN-VB 25-80 F	624.2508.067	IN-VB-S 25-80 F	624.2508.967
IN-VB 25-90 F	624.2509.067	IN-VB-S 25-90 F	624.2509.967
IN-VB 25-100 F	624.2510.067	IN-VB-S 25-100 F	624.2510.967
IN-VB 25-110 F	624.2511.067	IN-VB-S 25-110 F	624.2511.967
IN-VB 25-120 F	624.2512.067	IN-VB-S 25-120 F	624.2512.967
IN-VB 40-10-1 F	624.4001.167	IN-VB-S 40-10-1 F	624.4001.867
IN-VB 40-10 F	624.4001.067	IN-VB-S 40-10 F	624.4001.967
IN-VB 40-20-2 F	624.4002.267	IN-VB-S 40-20-2 F	624.4002.767
IN-VB 40-20 F	624.4002.067	IN-VB-S 40-20 F	624.4002.967
IN-VB 40-30-2 F	624.4003.267	IN-VB-S 40-30-2 F	624.4003.767
IN-VB 40-30 F	624.4003.067	IN-VB-S 40-30 F	624.4003.967
IN-VB 40-40-2 F	624.4004.267	IN-VB-S 40-40-2 F	624.4004.767
IN-VB 40-40 F	624.4004.067	IN-VB-S 40-40 F	624.4004.967
IN-VB 40-50-2 F	624.4005.267	IN-VB-S 40-50-2 F	624.4005.767
IN-VB 40-50 F	624.4005.067	IN-VB-S 40-50 F	624.4005.967
IN-VB 40-60-2 F	624.4006.267	IN-VB-S 40-60-2 F	624.4006.767
IN-VB 40-60 F	624.4006.067	IN-VB-S 40-60 F	624.4006.967
IN-VB 40-70-2 F	624.4007.267	IN-VB-S 40-70-2 F	624.4007.767
IN-VB 40-70 F	624.4007.067	IN-VB-S 40-70 F	624.4007.967
IN-VB 40-80-2 F	624.4008.267	IN-VB-S 40-80-2 F	624.4008.767
IN-VB 40-80 F	624.4008.067	IN-VB-S 40-80 F	624.4008.967
IN-VB 40-90-2 F	624.4009.267	IN-VB-S 40-90-2 F	624.4009.767
IN-VB 40-90 F	624.4009.067	IN-VB-S 40-90 F	624.4009.967
IN-VB 40-100-2 F	624.4010.267	IN-VB-S 40-100-2 F	624.4010.767
IN-VB 40-100 F	624.4010.067	IN-VB-S 40-100 F	624.4010.967
IN-VB 60-10-1 F	624.6001.167	IN-VB-S 60-10-1 F	624.6001.867
IN-VB 60-10 F	624.6001.067	IN-VB-S 60-10 F	624.6001.967
IN-VB 60-20-2 F	624.6002.267	IN-VB-S 60-20-2 F	624.6002.767
IN-VB 60-20 F	624.6002.067	IN-VB-S 60-20 F	624.6002.967
IN-VB 60-30-2 F	624.6003.267	IN-VB-S 60-30-2 F	624.6003.767
IN-VB 60-30 F	624.6003.067	IN-VB-S 60-30 F	624.6003.967
IN-VB 60-40-2 F	624.6004.267	IN-VB-S 60-40-2 F	624.6004.767
IN-VB 60-40 F	624.6004.067	IN-VB-S 60-40 F	624.6004.967
IN-VB 60-50-2 F	624.6005.267	IN-VB-S 60-50-2 F	624.6005.767
IN-VB 60-50 F	624.6005.067	IN-VB-S 60-50 F	624.6005.967
IN-VB 60-60-2 F	624.6006.267	IN-VB-S 60-60-2 F	624.6006.767
IN-VB 60-60 F	624.6006.067	IN-VB-S 60-60 F	624.6006.967
IN-VB 60-70-2 F	624.6007.267	IN-VB-S 60-70-2 F	624.6007.767
IN-VB 60-70 F	624.6007.067	IN-VB-S 60-70 F	624.6007.967
IN-VB 60-80-2 F	624.6008.267	IN-VB-S 60-80-2 F	624.6008.767
IN-VB 60-80 F	624.6008.067	IN-VB-S 60-80 F	624.6008.967
IN-VB 60-90-2 F	624.6009.267	IN-VB-S 60-90-2 F	624.6009.767

IN-VB



Order information

Type	Article no.	Type	Article no.
IN-VB 85-10-1 F	623.8501.167	IN-VB-S 85-10-1 F	623.8501.867
IN-VB 85-10 F	623.8501.067	IN-VB-S 85-10 F	623.8501.967
IN-VB 85-20-2 F	623.8502.267	IN-VB-S 85-20-2 F	623.8502.767
IN-VB 85-20-1 F	623.8502.167	IN-VB-S 85-20-1 F	623.8502.867
IN-VB 85-20 F	623.8502.067	IN-VB-S 85-20 F	623.8502.967
IN-VB 85-30-2 F	623.8503.267	IN-VB-S 85-30-2 F	623.8503.767
IN-VB 85-30-1 F	623.8503.167	IN-VB-S 85-30-1 F	623.8503.867
IN-VB 85-30 F	623.8503.067	IN-VB-S 85-30 F	623.8503.967
IN-VB 85-40-2 F	623.8504.267	IN-VB-S 85-40-2 F	623.8504.767
IN-VB 85-40-1 F	623.8504.167	IN-VB-S 85-40-1 F	623.8504.867
IN-VB 85-40 F	623.8504.067	IN-VB-S 85-40 F	623.8504.967
IN-VB 85-50-2 F	623.8505.267	IN-VB-S 85-50-2 F	623.8505.767
IN-VB 85-50-1 F	623.8505.167	IN-VB-S 85-50-1 F	623.8505.867
IN-VB 85-50 F	623.8505.067	IN-VB-S 85-50 F	623.8505.967
IN-VB 85-60-2 F	623.8506.267	IN-VB-S 85-60-2 F	623.8506.767
IN-VB 85-60-1 F	623.8506.167	IN-VB-S 85-60-1 F	623.8506.867
IN-VB 85-60 F	623.8506.067	IN-VB-S 85-60 F	623.8506.967
IN-VB 125-10 F	624.1251.067	IN-VB-S 125-10 F	624.1251.967
IN-VB 125-20-2 F	624.1252.267	IN-VB-S 125-20-2 F	624.1252.767
IN-VB 125-20-1 F	624.1252.167	IN-VB-S 125-20-1 F	624.1252.867
IN-VB 125-20 F	624.1252.067	IN-VB-S 125-20 F	624.1252.967
IN-VB 125-30-2 F	624.1253.267	IN-VB-S 125-30-2 F	624.1253.767
IN-VB 125-30-1 F	624.1253.167	IN-VB-S 125-30-1 F	624.1253.867
IN-VB 125-30 F	624.1253.067	IN-VB-S 125-30 F	624.1253.967
IN-VB 125-40-2 F	624.1254.267	IN-VB-S 125-40-2 F	624.1254.767

Supplements

Type	Article no.
IN-VB-L with low NPSH impeller	
IN-VB-L 2 - 6	623.0200.084
IN-VB-L 10, IN-VC-L 15	623.1000.084
IN-VB-L 25 - 85 F	-
IN-VB-L 125 F	-
IN-VB-C with cast iron housing	
IN-VB-C 2 - 6	623.0200.094
IN-VB-C 10, IN-VC-C 15	623.1000.094
IN-VB-C 25 - 85 F	623.3200.094
IN-VB-C 125 F	623.1250.094

IN-VB/IN-VC



Supplements

Type	Article no.	Max. rated pressure	Connections
Set of stainless steel, oval counter flanges, incl. screws and seals			
IN-VB 2	623.0200.077		Rp 1
IN-VB 4	623.0400.077		Rp 1 ¼
IN-VB 6	623.0400.077		Rp 1 ¼
IN-VB 10	623.1000.077		Rp 1 ½
IN-VB 10	623.1000.078		Rp 2
Round flanges instead of oval flanges			
IN-VB 2	623.0200.076		Rp 1" up to DN 25
IN-VB-S 2	623.0200.976		Rp 1" up to DN 25
IN-VB 4	623.0400.076		Rp 1 ¼" up to DN 32
IN-VB-S 4	623.0400.976		Rp 1 ¼" up to DN 32
IN-VB 6	623.0400.076		Rp 1 ¼" up to DN 32
IN-VB-S 6	623.0400.976		Rp 1 ¼" up to DN 32
IN-VB 10	623.1000.076		Rp 1 ½" up to DN 40
IN-VB-S 10	623.1000.976		Rp 1 ½" up to DN 40
Set of stainless steel, round counter flanges, incl. screws and seals			
IN-VB 2 F	623.0200.075	PN 25	DN 25 up to Rp 1"
IN-VB 4 F	623.0400.075	PN 25	DN 32 up to Rp 1 ¼"
IN-VB 6 F	623.0400.075	PN 25	DN 32 up to Rp 1 ¼"
IN-VB 10 F	623.1000.075	PN 25	DN 40 up to Rp 1 ½"
IN-VC 15 F	623.1800.075	PN 25	DN 50 up to Rp 2"
IN-VB 25 F	623.3200.075	PN 25	DN 65 up to Rp 2 ½"
IN-VB 40 F	623.4500.075	PN 25	DN 80 up to Rp 3"
IN-VB 60/85 F	623.6500.074	PN 16	DN 100 up to Rp 4"
IN-VB 60/85 F	623.6500.075	PN 25	DN 100 up to Rp 4"
IN-VB 125 F	623.1250.076	PN 16	DN 125 up to Rp 5"
IN-VB 125 F	623.1250.075	PN 25	DN 125 up to Rp 5"

Special mechanical seals

Type	Article no.	Size	Pressure
Easy Access (Standard IN-VB 25 - 85)			
IN-VB 2 - 6	623.0200.095		
IN-VB 10, IN-VC 15	623.1000.095		
Cartridge (Standard IN-VB 125)			
IN-VB 2 - 6	623.0200.096		
IN-VB 10, IN-VC 15	623.1000.096		
IN-VB 25 - 85 F	623.3200.096		
Carbon/SiC/EPDM, code 11 (Standard IN-VB/IN-VC, PN 10)			
IN-VB 2 - 6	623.0200.070	12	PN 10
IN-VB 10, IN-VC 15	623.1000.070	16	PN 10
IN-VB 25 - 85 F	623.3200.070	22	PN 10
IN-VB 125 F	623.1250.070	28	PN 10
Carbon/SiC/Viton, code 12 (Standard, IN-VB-S/IN-VC-S, PN 10)			
IN-VB 2 - 6	623.0200.071	12	PN 10
IN-VB 10, IN-VC 15	623.1000.071	16	PN 10
IN-VB 25 - 85 F	623.3200.071	22	PN 10
IN-VB 125 F	623.1250.071	28	PN 10

IN-VB/IN-VC



Special mechanical seals

Type	Article no.	Size Ø	Pressure
SiC/carbon/EPDM, WRAS, code 13			
IN-VB 2 - 6	623.0200.087	12	PN 25
IN-VB 10, IN-VC 15	623.1000.087	16	PN 25
IN-VB 25 - 85 F	623.3200.087	22	PN 25
IN-VB 125 F	623.1250.087	28	PN 25
SiC/carbon/Viton, code 14 (Standard IN-VB-S/IN-VC-S, PN 25)			
IN-VB 2 - 6	623.0200.068	12	PN 25
IN-VB 10, IN-VC 15	623.1000.068	16	PN 25
IN-VB 25 - 85 F	623.3200.068	22	PN 25
IN-VB 125 F	623.1250.068	28	PN 25
TuC/TuC/HNBR, code 15			
IN-VB 2 - 6	623.0200.073	12	PN 25
IN-VB 10, IN-VC 15	623.1000.073	16	PN 25
IN-VB 25 - 85 F	623.3200.073	22	PN 25
IN-VB 125 F	623.1250.073	28	PN 25
TuC/TuC/Viton, code 16			
IN-VB 2 - 6	623.0200.074	12	PN 25
IN-VB 10, IN-VC 15	623.1000.074	16	PN 25
IN-VB 25 - 85 F	623.3200.074	22	PN 25
IN-VB 125 F	623.1250.074	28	PN 25
TuC/carbon/EPDM, code 18			
IN-VB 2 - 6	623.0200.085	12	PN 25
IN-VB 10, IN-VC 15	623.1000.085	16	PN 25
IN-VB 25 - 85 F	623.3200.085	22	PN 25
IN-VB 125 F	623.1250.085	28	PN 25
SiC/carbon/EPDM, code 20			
IN-VB 2 - 6	623.0200.086	12	PN 40
IN-VB 10, IN-VC 15	623.1000.086	16	PN 40
IN-VB 25 - 85 F	623.3200.086	22	PN 40
IN-VB 125 F	623.1250.086	28	PN 40
SiC/carbon/Viton, code 21			
IN-VB 2 - 6	623.0200.088	12	PN 40
IN-VB 10, IN-VC 15	623.1000.088	16	PN 40
IN-VB 25 - 85 F	623.3200.088	22	PN 40
IN-VB 125 F	623.1250.088	28	PN 40
SiC/carbon/HNBR, code 22			
IN-VB 2 - 6	623.0200.089	12	PN 40
IN-VB 10, IN-VC 15	623.1000.089	16	PN 40
IN-VB 25 - 85 F	623.3200.089	22	PN 40
IN-VB 125 F	623.1250.089	28	PN 40
SiC/carbon/EPDM, code 23 (Standard IN-VB/IN-VC, PN 25)			
IN-VB 2 - 6	623.0200.067	12	PN 25
IN-VB 10, IN-VC 15	623.1000.067	16	PN 25
IN-VB 25 - 85 F	623.3200.067	22	PN 25
IN-VB 125 F	623.1250.067	28	PN 25

IN-VB/IN-VC



Special mechanical seals

Type	Article no.	Size Ø	Pressure
SiC/SiC/Viton, code 24			
IN-VB 2 - 6	623.0200.091	12	PN 10
IN-VB 10, IN-VC 15	623.1000.091	16	PN 10
IN-VB 25 - 85 F	623.3200.091	22	PN 10
IN-VB 125 F	623.1250.091	28	PN 10
SiC/SiC/HNBR, code 28			
IN-VB 2 - 6	623.0200.092	12	PN 10
IN-VB 10, IN-VC 15	623.1000.092	16	PN 10
IN-VB 25 - 85 F	623.3200.092	22	PN 10
IN-VB 125 F	623.1250.092	28	PN 10
SiC/SiC/EPDM, code 29			
IN-VB 2 - 6	623.0200.093	12	PN 10
IN-VB 10, IN-VC 15	623.1000.093	16	PN 10
IN-VB 25 - 85 F	623.3200.093	22	PN 10
IN-VB 125 F	623.1250.093	28	PN 10

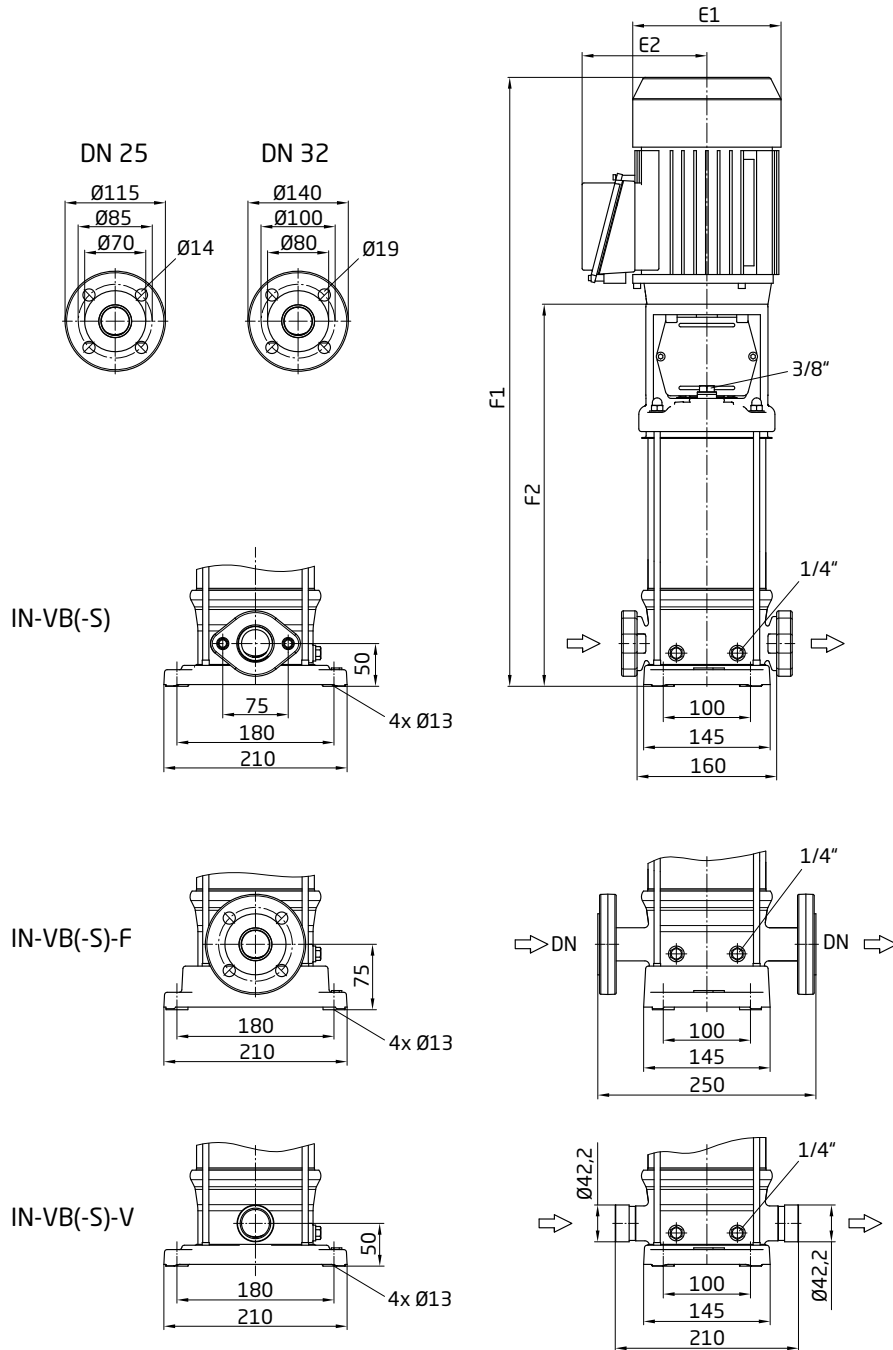
Additional charges

Motor kW	Article no.
Enhanced motor performance 50/60 Hz	
from 0.37 kW to 0.55 kW	629.9999.970
from 0.55 kW to 0.75 kW	629.9999.971
from 0.75 kW to 1.10 kW	629.9999.972
from 1.10 kW to 1.50 kW	629.9999.973
from 1.50 kW to 2.20 kW	629.9999.974
from 2.20 kW to 3.00 kW	629.9999.975
from 3.00 kW to 4.00 kW	629.9999.976
from 4.00 kW to 5.50 kW	629.9999.977
from 5.50 kW to 7.50 kW	629.9999.978
from 7.50 kW to 11.00 kW	629.9999.979
from 11.00 kW to 15.00 kW	629.9999.980
from 15.00 kW to 18.50 kW	629.9999.981
from 18.50 kW to 22.00 kW	629.9999.982
PTC resistor	
0.37 kW up to 2.20 kW	629.9999.995
Improved efficiency IE3 to IE4 motors	
3.00 kW up to 4.00 kW	623.0000.010
5.50 kW up to 7.50 kW	623.0000.011
11.0 kW up to 18.5 kW	623.0000.012
22.0 kW	623.0000.013
30.0 kW up to 37.0 kW	623.0000.014
45.0 kW	623.0000.015

IN-VB 2, IN-VB 4, IN-VB 6



Dimensions



IN-VB 2, IN-VB 4, IN-VB 6

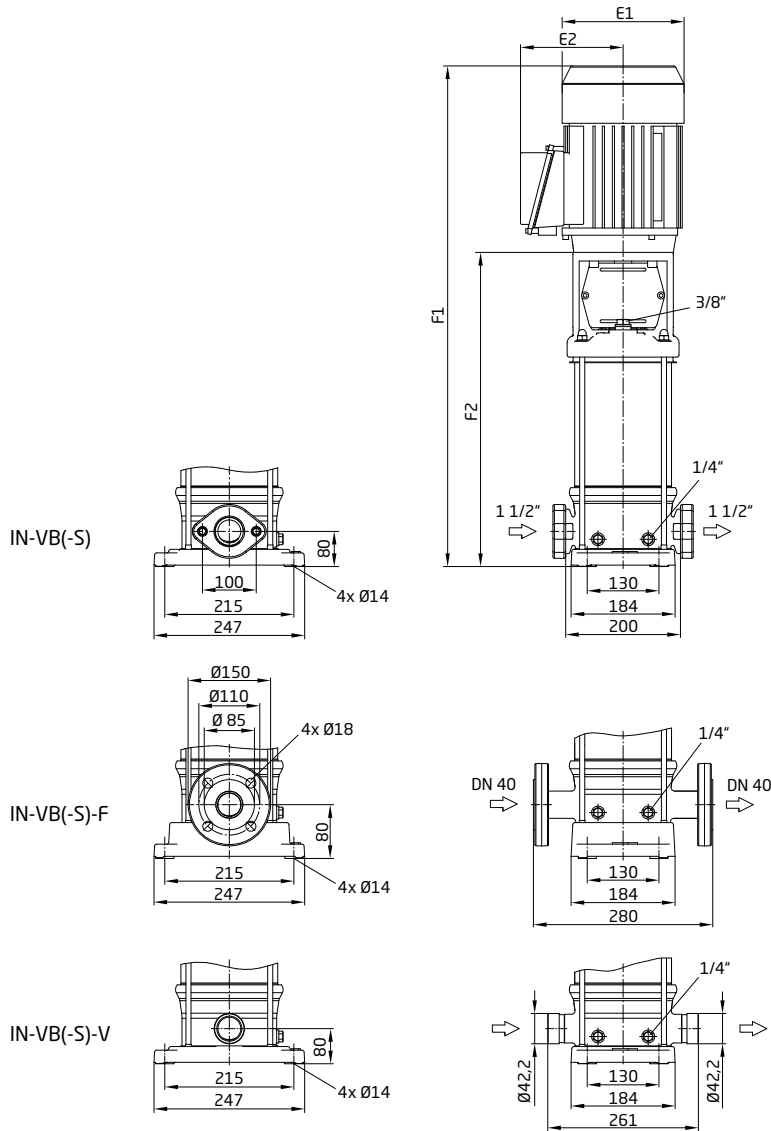


Type	Universal		IN-VB(-S/-S-V) *)			IN-VB(-S)... F *)		
	E1	E2	F1	F2	Connection	F1	F2	DN
IN-VB 2-20	134	107	478	259	1"	503	284	DN 25
IN-VB 2-30	134	107	499	280	1"	524	305	DN 25
IN-VB 2-40	134	107	521	302	1"	546	327	DN 25
IN-VB 2-50	134	107	542	323	1"	567	348	DN 25
IN-VB 2-60	134	107	588	345	1"	613	370	DN 25
IN-VB 2-70	134	107	609	366	1"	634	391	DN 25
IN-VB 2-80	134	107	641	398	1"	666	423	DN 25
IN-VB 2-90	150	115	653	419	1"	678	444	DN 25
IN-VB 2-100	150	115	675	441	1"	700	466	DN 25
IN-VB 2-110	150	115	726	462	1"	751	487	DN 25
IN-VB 2-120	150	115	748	484	1"	773	509	DN 25
IN-VB 2-140	150	115	791	527	1"	816	552	DN 25
IN-VB 2-160	185	139	861	580	1"	886	605	DN 25
IN-VB 2-180	185	139	904	623	1"	929	648	DN 25
IN-VB 2-200	185	139	947	666	1"	972	691	DN 25
IN-VB 2-220 F	185	139	-	-	1"	1040	734	DN 25
IN-VB 2-240 F	185	139	-	-	1"	1083	777	DN 25
IN-VB 2-260 F	185	139	-	-	1"	1126	820	DN 25
IN-VB 2-280 F	185	139	-	-	1"	1169	863	DN 25
IN-VB 2-300 F	185	139	-	-	1"	1212	906	DN 25
IN-VB 4-20	134	107	478	259	1 1/4"	503	284	DN 32
IN-VB 4-30	134	107	523	280	1 1/4"	548	305	DN 32
IN-VB 4-40	134	107	545	302	1 1/4"	570	327	DN 32
IN-VB 4-50	150	115	567	333	1 1/4"	592	358	DN 32
IN-VB 4-60	150	115	619	355	1 1/4"	644	380	DN 32
IN-VB 4-70	150	115	640	376	1 1/4"	665	401	DN 32
IN-VB 4-80	185	139	689	408	1 1/4"	714	433	DN 32
IN-VB 4-90	185	139	710	429	1 1/4"	735	454	DN 32
IN-VB 4-100	185	139	732	451	1 1/4"	757	476	DN 32
IN-VB 4-110	185	139	778	472	1 1/4"	803	497	DN 32
IN-VB 4-120	185	139	775	494	1 1/4"	800	519	DN 32
IN-VB 4-140	185	139	843	537	1 1/4"	868	562	DN 32
IN-VB 4-160	199	150	907	590	1 1/4"	932	615	DN 32
IN-VB 4-180 F	199	150	-	-	1 1/4"	975	658	DN 32
IN-VB 4-200 F	199	150	-	-	1 1/4"	1018	701	DN 32
IN-VB 4-220 F	241	165	-	-	1 1/4"	1100	744	DN 32
IN-VB 4-240 F	241	165	-	-	1 1/4"	1143	787	DN 32
IN-VB 4-260 F	241	165	-	-	1 1/4"	1186	830	DN 32
IN-VB 6-20	134	107	485	266	1 1/4"	510	291	DN 32
IN-VB 6-30	150	115	535	301	1 1/4"	560	326	DN 32
IN-VB 6-40	150	115	590	326	1 1/4"	615	351	DN 32
IN-VB 6-50	150	115	615	351	1 1/4"	640	376	DN 32
IN-VB 6-60	185	139	667	386	1 1/4"	692	411	DN 32
IN-VB 6-70	185	139	692	411	1 1/4"	717	436	DN 32
IN-VB 6-80	185	139	742	436	1 1/4"	767	461	DN 32
IN-VB 6-90	185	139	767	461	1 1/4"	792	486	DN 32
IN-VB 6-100	185	139	792	486	1 1/4"	817	511	DN 32
IN-VB 6-110	199	150	838	521	1 1/4"	863	546	DN 32
IN-VB 6-120	199	150	863	546	1 1/4"	888	571	DN 32
IN-VB 6-140	199	150	913	596	1 1/4"	938	621	DN 32
IN-VB 6-160	241	165	1002	646	1 1/4"	1027	671	DN 32
IN-VB 6-180 F	241	165	-	-	1 1/4"	1077	721	DN 32
IN-VB 6-200 F	288	197	-	-	1 1/4"	1279	847	DN 32
IN-VB 6-220 F	288	197	-	-	1 1/4"	1329	897	DN 32
IN-VB 6-240 F	288	197	-	-	1 1/4"	1379	947	DN 32
IN-VB 6-260 F	288	197	-	-	1 1/4"	1429	997	DN 32

IN-VB 10



Dimensions

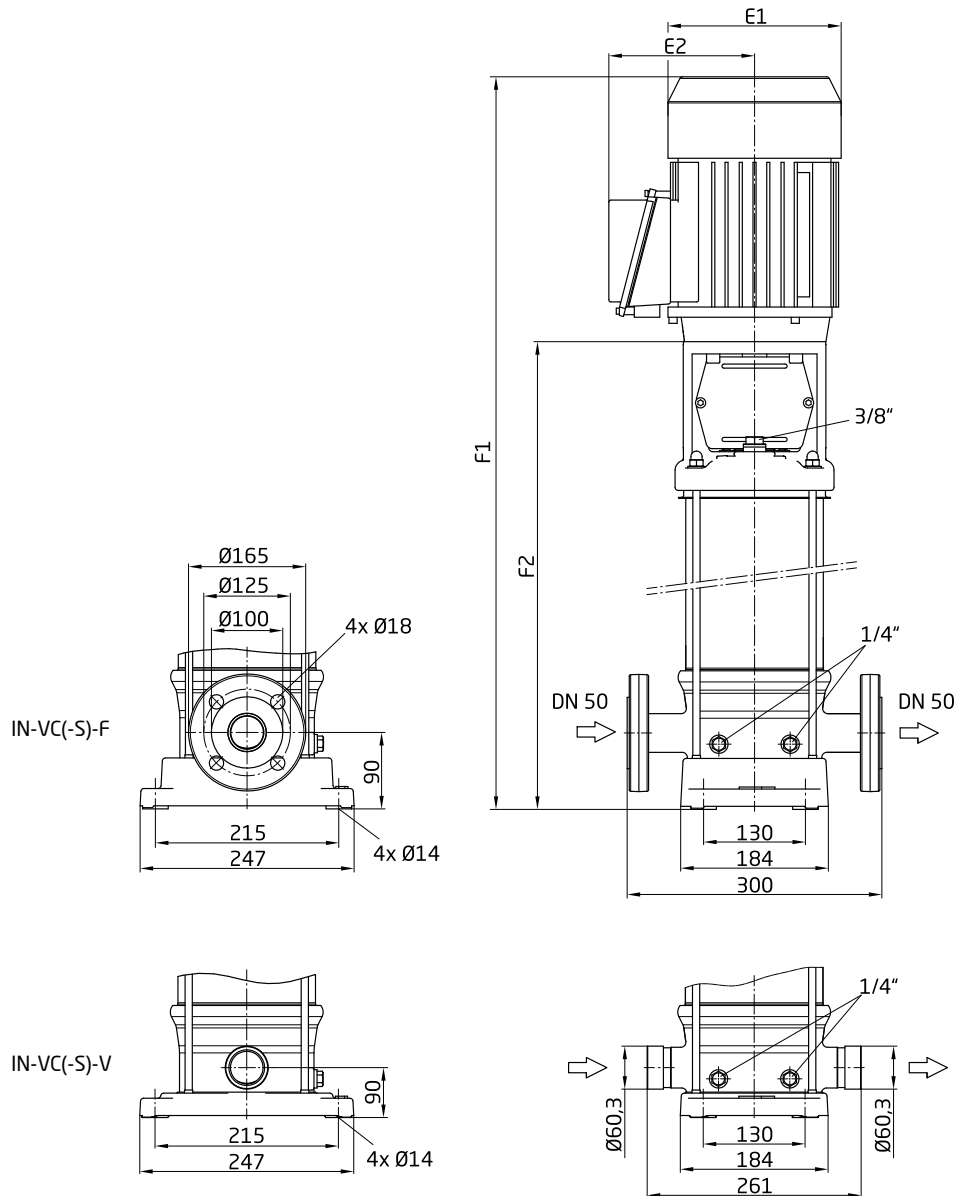


Type	Universal		IN-VB(-S/-S-V) ¹⁾		IN-VB(-S)... F ¹⁾	
	E1	E2	F1	F2	F1	F2
IN-VB 10-10	150	115	580	346	580	346
IN-VB 10-20	150	115	580	346	580	346
IN-VB 10-30	150	115	636	372	636	372
IN-VB 10-40	185	139	690	409	690	409
IN-VB 10-50	185	139	741	435	741	435
IN-VB 10-60	185	139	768	462	768	462
IN-VB 10-70	199	150	815	498	815	498
IN-VB 10-80	199	150	842	525	842	525
IN-VB 10-90	241	165	907	551	907	551
IN-VB 10-100	241	165	934	578	934	578
IN-VB 10-110	241	165	960	604	960	604
IN-VB 10-130	288	197	1169	737	1169	737
IN-VB 10-150 F	288	197	-	-	1222	790
IN-VB 10-170 F	288	197	-	-	1275	843
IN-VB 10-190 F	288	197	-	-	1328	896
IN-VB 10-210 F	288	197	-	-	1381	949

IN-VC 15



Dimensions

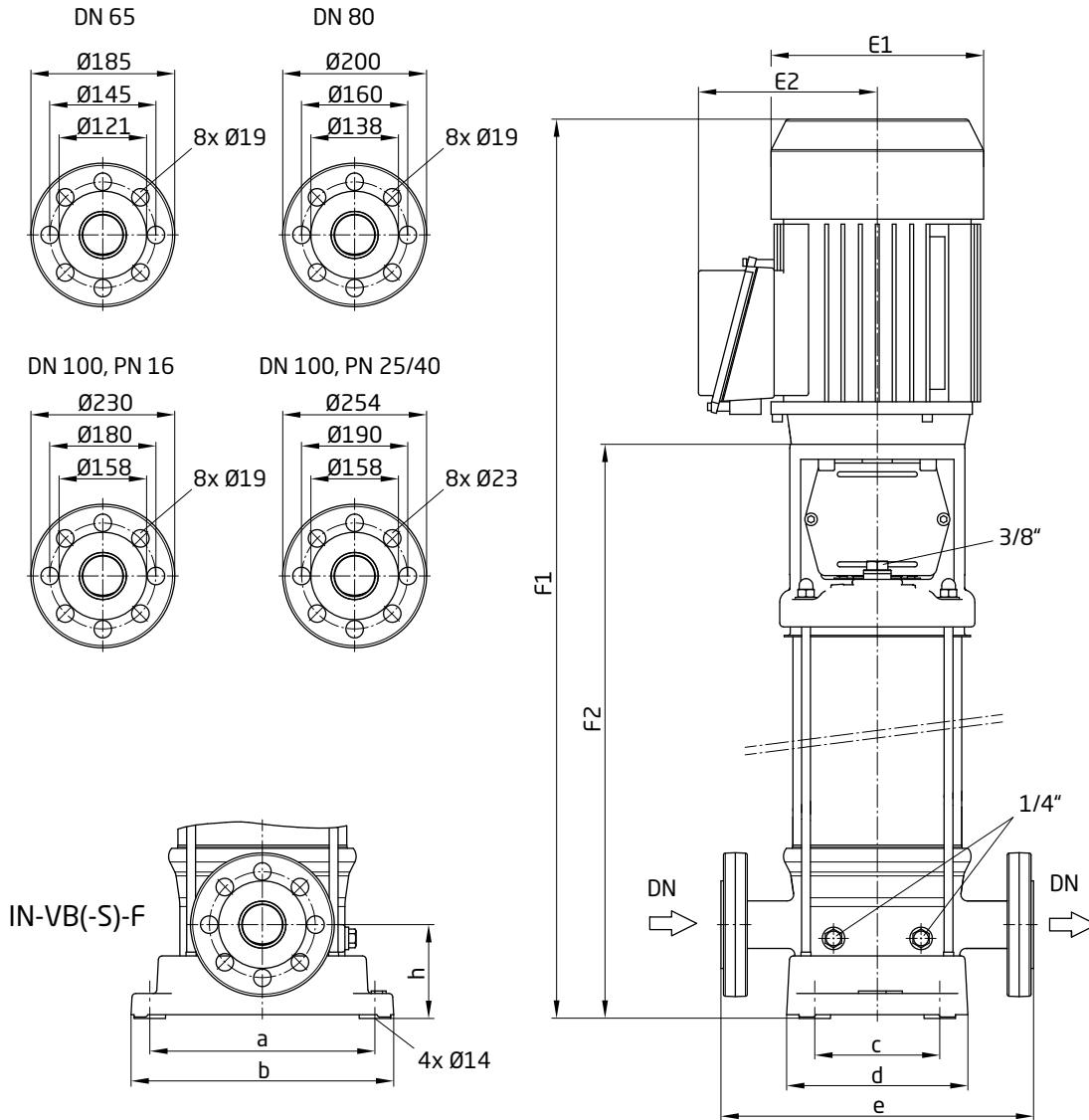


Type	Universal		IN-VB(-S)... F 1)	
	E1	E2	F1	F2
IN-VC 15-10	150	115	637	373
IN-VC 15-20	200	148	664	383
IN-VC 15-30	215	157	751	434
IN-VC 15-40	248	168	831	475
IN-VC 15-50	288	197	1027.50	595.50
IN-VC 15-60	288	197	1068.50	636.50
IN-VC 15-70	288	197	1109.50	677.50
IN-VC 15-80	340	223	1271.50	738.50
IN-VC 15-90	340	223	1322.50	789.50
IN-VC 15-100	340	223	1363.50	830.50
IN-VC 15-110	340	223	1404.50	781.50
IN-VC 15-130	340	223	1486.50	953.50
IN-VC 15-150	340	223	1568.50	1035.50

IN-VB 25, IN-VB 40, IN-VB 60



Dimensions



IN-VB 25, IN-VB 40, IN-VB 60

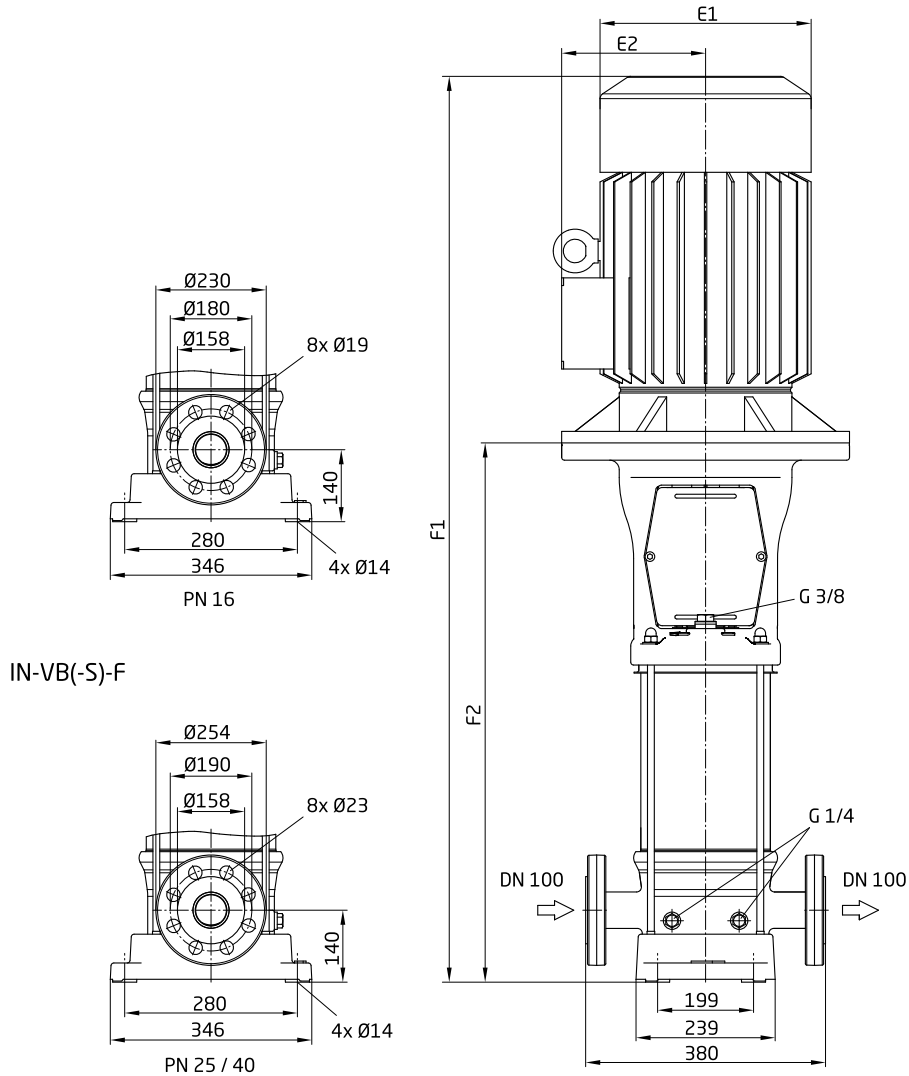


Type	Universal				IN-VB(-S)... F ¹⁾						
	E1	E2	F1	F2	a	b	c	d	e	h	DN
IN-VB 25-10	185	139	714	408	240	280	170	210	320	105	65
IN-VB 25-20	241	165	834	478	240	280	170	210	320	105	65
IN-VB 25-30	288	197	1066	634	240	280	170	210	320	105	65
IN-VB 25-40	288	197	1131	699	240	280	170	210	320	105	65
IN-VB 25-50	340	223	1327	794	240	280	170	210	320	105	65
IN-VB 25-60	340	223	1392	859	240	280	170	210	320	105	65
IN-VB 25-70	340	223	1457	924	240	280	170	210	320	105	65
IN-VB 25-80	340	223	1522	989	240	280	170	210	320	105	65
IN-VB 25-90	340	223	1587	1054	240	280	170	210	320	105	65
IN-VB 25-100	340	223	1652	1119	240	280	170	210	320	105	65
IN-VB 25-110	340	223	1717	1184	240	280	170	210	320	105	65
IN-VB 25-120	360	234	1897	1249	240	280	170	210	320	105	65
IN-VB 40-10-1	199	150	804	487	266	306	190	230	365	140	80
IN-VB 40-10	241	165	843	487	266	306	190	230	365	140	80
IN-VB 40-20-2	288	197	1087	655	266	306	190	230	365	140	80
IN-VB 40-20	288	197	1087	655	266	306	190	230	365	140	80
IN-VB 40-30-2	340	223	1296	763	266	306	190	230	365	140	80
IN-VB 40-30	340	223	1296	763	266	306	190	230	365	140	80
IN-VB 40-40-2	340	223	1374	841	266	306	190	230	365	140	80
IN-VB 40-40	340	223	1374	841	266	306	190	230	365	140	80
IN-VB 40-50-2	340	223	1452	919	266	306	190	230	365	140	80
IN-VB 40-50	340	223	1452	919	266	306	190	230	365	140	80
IN-VB 40-60-2	340	223	1530	997	266	306	190	230	365	140	80
IN-VB 40-60	360	234	1645	997	266	306	190	230	365	140	80
IN-VB 40-70-2	360	234	1723	1075	266	306	190	230	365	140	80
IN-VB 40-70	400	340	1745	1075	266	306	190	230	365	140	80
IN-VB 40-80-2	400	340	1823	1153	266	306	190	230	365	140	80
IN-VB 40-80	400	340	1823	1153	266	306	190	230	365	140	80
IN-VB 40-90-2	400	340	1901	1231	266	306	190	230	365	140	80
IN-VB 40-90	400	340	1901	1231	266	306	190	230	365	140	80
IN-VB 40-100-2	400	340	1979	1309	266	306	190	230	365	140	80
IN-VB 40-100	400	340	1979	1309	266	306	190	230	365	140	80
IN-VB 60-10-1	241	165	843	487	266	306	190	230	365	140	100
IN-VB 60-10	288	197	1009	577	266	306	190	230	365	140	100
IN-VB 60-20-2	288	197	1087	655	266	306	190	230	365	140	100
IN-VB 60-20	340	223	1218	685	266	306	190	230	365	140	100
IN-VB 60-30-2	340	223	1296	763	266	306	190	230	365	140	100
IN-VB 60-30	340	223	1296	763	266	306	190	230	365	140	100
IN-VB 60-40-2	340	223	1374	841	266	306	190	230	365	140	100
IN-VB 60-40	360	234	1489	841	266	306	190	230	365	140	100
IN-VB 60-50-2	360	234	1567	919	266	306	190	230	365	140	100
IN-VB 60-50	400	340	1589	919	266	306	190	230	365	140	100
IN-VB 60-60-2	400	340	1667	997	266	306	190	230	365	140	100
IN-VB 60-60	400	340	1667	997	266	306	190	230	365	140	100
IN-VB 60-70-2	400	340	1745	1075	266	306	190	230	365	140	100
IN-VB 60-70	400	340	1745	1075	266	306	190	230	365	140	100
IN-VB 60-80-2	400	340	1823	1153	266	306	190	230	365	140	100
IN-VB 60-80	450	365	1863	1153	266	306	190	230	365	140	100
IN-VB 60-90-2	450	365	1941	1231	266	306	190	230	365	140	100

IN-VB 85



Dimensions

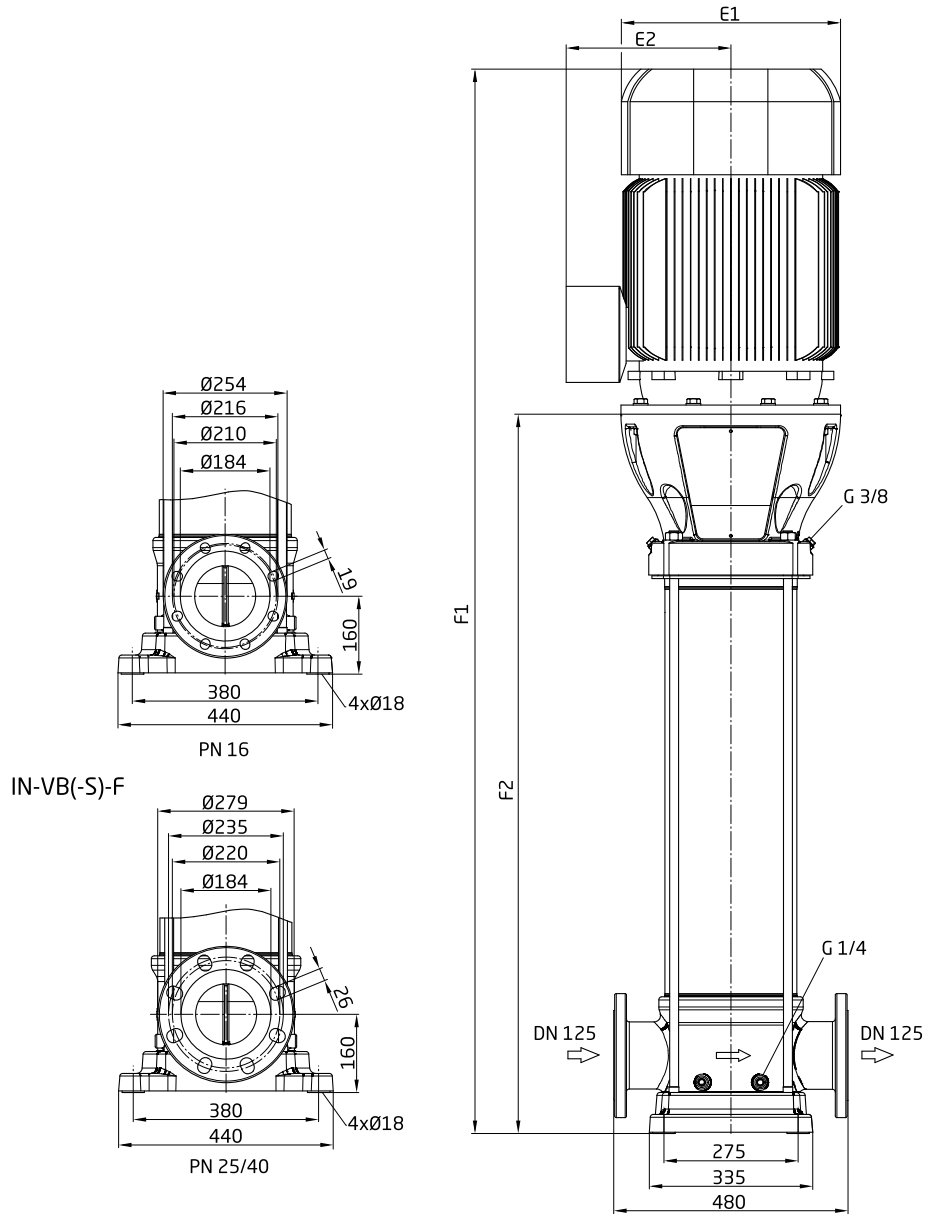


Type	Universal		IN-VB(-S)... F ^{*)}	
	E1	E2	F1	F2
IN-VB 85-10-1	288	197	1073	641
IN-VB 85-10	288	197	1073	641
IN-VB 85-20-2	340	223	1313	780
IN-VB 85-20-1	340	223	1313	780
IN-VB 85-20	340	223	1313	780
IN-VB 85-30-2	340	223	1422	889
IN-VB 85-30-1	360	234	1537	889
IN-VB 85-30	360	234	1537	889
IN-VB 85-40-2	400	340	1668	998
IN-VB 85-40-1	400	340	1668	998
IN-VB 85-40	400	340	1668	998
IN-VB 85-50-2	400	340	1777	1107
IN-VB 85-50-1	400	340	1777	1107
IN-VB 85-50	400	340	1777	1107
IN-VB 85-60-2	450	365	1926	1216
IN-VB 85-60-1	450	365	1926	1216
IN-VB 85-60	450	365	1926	1216

IN-VB 125



Dimensions



Type	Universal		IN-VB(-S)... F ^{*)}	
	E1	E2	F1	F2
IN-VB 125-10	340	223	1272	739
IN-VB 125-20-2	340	223	1402	869
IN-VB 125-20-1	360	234	1517	869
IN-VB 125-20	400	340	1539	869
IN-VB 125-30-2	400	340	1669	999
IN-VB 125-30-1	400	340	1669	999
IN-VB 125-30	400	340	1669	999
IN-VB 125-40-2	450	365	1829	1119