



Pump • Fire Fighting Units • Booster Set

TH GRV-VD / VB BOOSTERS

TH GRV-VD / VB Rev.05 03.2024



General Information

High pressure, quiet running, compact and low power consumption.

GRV-VD / VB pumps are suitable for pumping non-abrasive, clean or slightly contaminated, low viscosity without solid & fibrous particles liquids.

Vertical design saves space.

Technical Data

Capacity _____ up to 45 m³/h

Head _____ up to 170 m

Casing Pressure _____ 10-16-25 bar

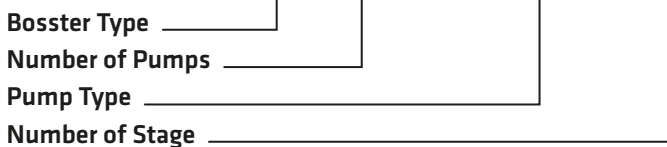
Design Temperature _____ up to 50 °C

Design Features

- TH GRV-VD / VB boosters are manufactured with vertical pump.
- The boosters are produced as single, double and triple pumps as a standard according to the desired flow. Upon request, up to 6 pumps can be set.
- Single-pump boosters have a water level float (electric floater).
- Phase control system (PCS) is available in single pump, three-phase motorized boosters.
- Sequencing, phase control and liquid level control are standard features for multiple pumped booster pumps.
- Booster pumps can operate in two different modes; automatically and manually.

Booster Designation

TH 1 x GRV-VD 5



- Electric motors of high efficiency class conforming to IEC 60034-30 standard are used.
- The booster pumps can be manufactured as a variable-speed frequency control for convenience. (upon request)

Material Information

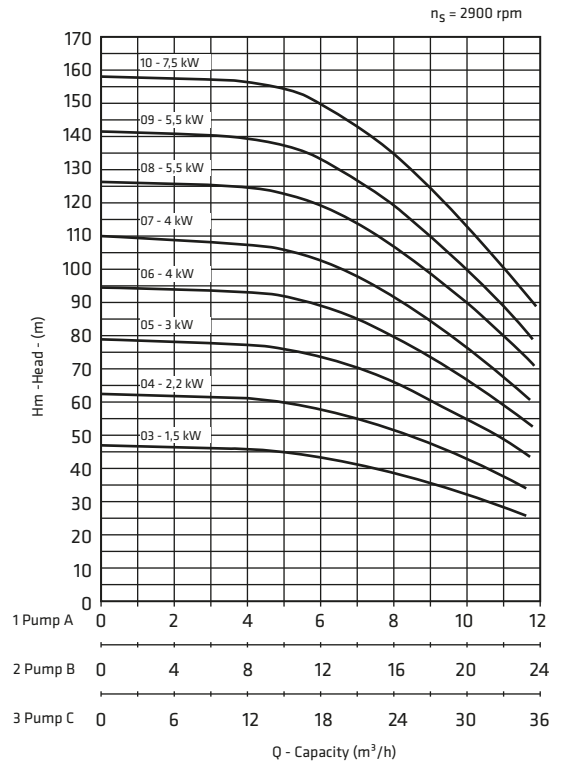
Part Name	Material	
	Standard	Optional
Pump		
Base Plate	GG 25	Bronz / AISI 304
Stage Casing	NORYL	Bronz / AISI 304
Intermediate Stage	NORYL	Bronz / AISI 304
Impeller	NORYL	Bronz / AISI 304
Shaft	AISI 420	AISI 304
Cover Plate	AISI 304	-
Panel	Pressure Switch Controlled	Frequency Controlled
Collector	Steel	AISI 304
Frame	Steel	Galvanized Steel
Accessories		
Valve	Brass	AISI 304
Check Valve	Brass	AISI 316

Performance Curve and Dimension Charts

TH GRV-VD /VB

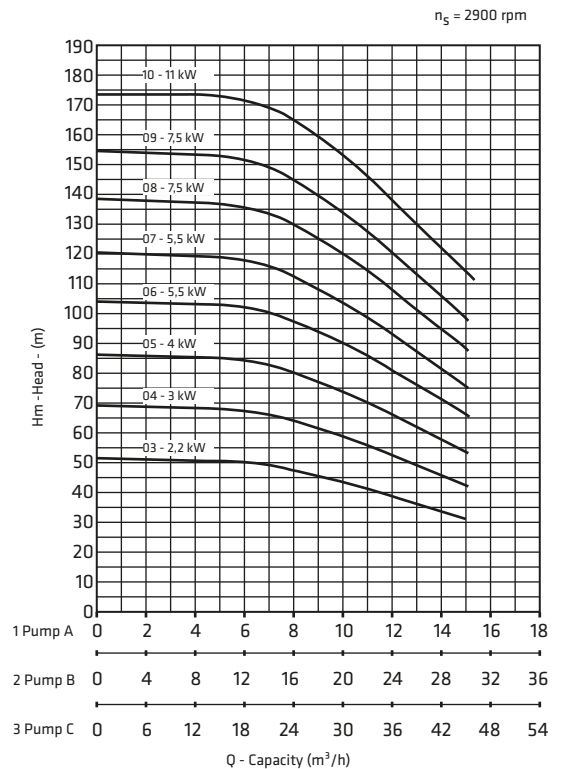
GRV-VD

Pump Type	Motor		Overall Dimensions						Weight KG			
	kW	IEC	A	B	Ka	Kb	B(max)	h		d	h1	h2
1x GRV-VD 3	1.5	90S						700			265	70
1x GRV-VD 4	2.2	90L						740			305	75
1x GRV-VD 5	3	100L						780			345	85
1x GRV-VD 6	4	112M	430	360	370	340	480	820	1 1/4"	100	385	100
1x GRV-VD 7	4	112M						860			427	105
1x GRV-VD 8	5.5	132S						900			467	125
1x GRV-VD 9	5.5	132S						940			507	130
1x GRV-VD 10	7.5	132S						980			547	135
2x GRV-VD 3	1.5	90S						700			265	160
2x GRV-VD 4	2.2	90L						740			305	165
2x GRV-VD 5	3	100L						780			345	185
2x GRV-VD 6	4	112M	800	360	700	330	660	820	2 1/2"	100	385	210
2x GRV-VD 7	4	112M						860			427	215
2x GRV-VD 8	5.5	132S						900			467	260
2x GRV-VD 9	5.5	132S						940			507	270
2x GRV-VD 10	7.5	132S						980			547	275
3x GRV-VD 3	1.5	90S						700			265	230
3x GRV-VD 4	2.2	90L						740			305	240
3x GRV-VD 5	3	100L						780			345	270
3x GRV-VD 6	4	112M	1150	360	1050	330	720	820	3"	100	385	305
3x GRV-VD 7	4	112M						860			427	315
3x GRV-VD 8	5.5	132S						900			467	390
3x GRV-VD 9	5.5	132S						940			507	395
3x GRV-VD 10	7.5	132S						980			547	405

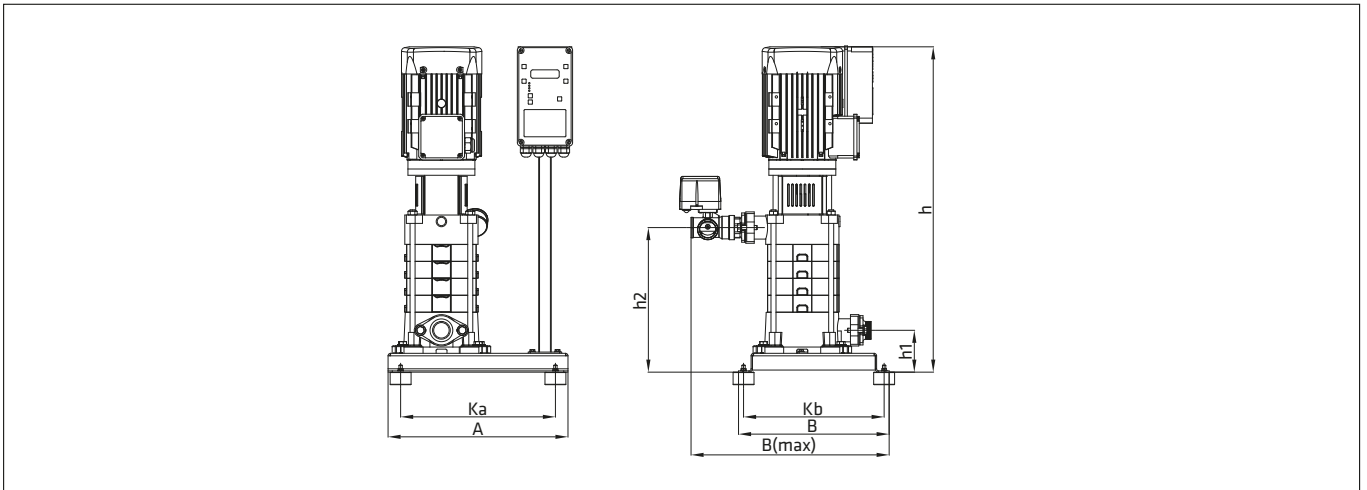


GRV-VB

Pump Type	Motor		Overall Dimensions						Weight KG			
	kW	IEC	A	B	Ka	Kb	B(max)	h		d	h1	h2
1x GRV-VB 3	2.2	90L						700			265	70
1x GRV-VB 4	3	100L						740			305	75
1x GRV-VB 5	4	112M						780			345	85
1x GRV-VB 6	5.5	132S	435	300	410	240	465	820	2"	100	386	100
1x GRV-VB 7	5.5	132S						860			427	105
1x GRV-VB 8	7.5	132S						900			467	125
1x GRV-VB 9	7.5	132S						940			507	130
1x GRV-VB 10	11	160M						980			547	135
2x GRV-VB 3	2.2	90L						700			300	160
2x GRV-VB 4	3	100L						740			340	165
2x GRV-VB 5	4	112M						780			380	185
2x GRV-VB 6	5.5	132S	800	360	700	330	760	820	2 1/2"	100	420	210
2x GRV-VB 7	5.5	132S						860			460	215
2x GRV-VB 8	7.5	132S						900			500	260
2x GRV-VB 9	7.5	132S						940			545	270
2x GRV-VB 10	11	160M	950	360	850	330		1050			600	275
3x GRV-VB 3	2.2	90L						700			300	230
3x GRV-VB 4	3	100L						740			340	240
3x GRV-VB 5	4	112M						780			380	270
3x GRV-VB 6	5.5	132S	1150	360	1050	330	780	820	3"	100	420	305
3x GRV-VB 7	5.5	132S						860			460	315
3x GRV-VB 8	7.5	132S						900			500	390
3x GRV-VB 9	7.5	132S						940			545	395
3x GRV-VB 10	11	160M	1450	360	1350	330		1050			600	405

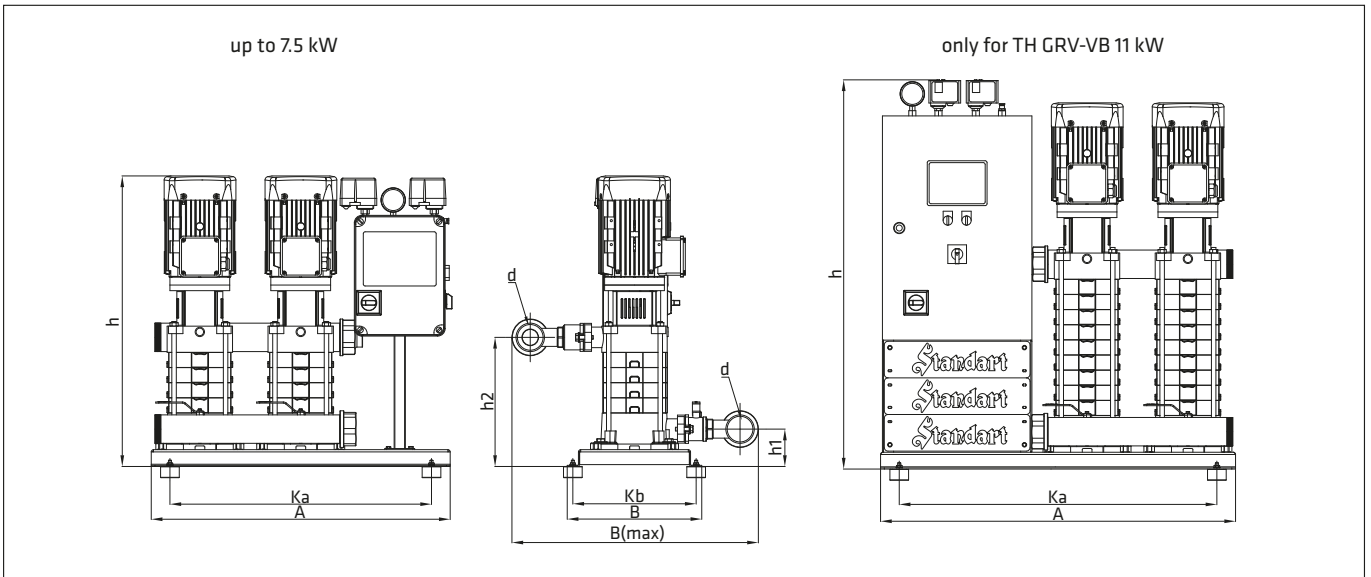


Booster set with one pump



(*) Ba(max) dimensions are different according to control panels. Contact for detailed information.

Booster set with two pumps



Booster set with three pumps

