

-  Clean water
-  Domestic use
-  Civil use



### INSTALLATION AND USE

**VSP2** is a pre-assembled system intended for connecting to water mains or a primary collection tank. It provides water supply and pressurization and is ideal for residential, commercial, and public buildings. It's also suitable for hotels, park irrigation, as well as industrial water handling and treatment.

**VSP2** is compatible with clean water and aqueous solutions that do not chemically or mechanically harm the materials used and are free from abrasive or fibrous substances.

### PRODUCT DESCRIPTION

**VSP2** is a pressurization system comprising two pumping units connected in parallel. Integrated inverter devices automatically adjust their operation to varying water demands while ensuring constant pressure.

When system pressure drops due to water withdrawal, the first **VSP** unit starts working to provide the necessary water flow rate, maintaining pressure. Once the maximum rotation speed is reached, the second **VSP** unit starts to fulfill the system's water demand.

### COMPONENTS

※ **TWO VSP PUMPING UNITS** connected in parallel via suction and discharge manifolds. Each unit is equipped with ball valves on the supply and suction side, non-return valves on the suction side (FCR, PLURIJET, MK) or on the supply side (HT-PRO). The electronics integrated in VSP can manage the alternating operation of individual units.

**VSP2 is designed to protect the system from:**

- ※ dry running
- ※ overvoltage and undervoltage
- ※ combustion chamber

※ **BASE** made of metal profile and equipped with adjustable vibration-damping feet.

※ **PRESSURE TRANSDUCER** (4-20mA) installed on the supply manifold, which enables command and control of the pressurization unit.

※ **CONTROL PANEL** with thermal-magnetic circuit breakers for three-phase versions and thermal-magnetic circuit breakers for single-phase versions.

※ **POWER SUPPLY:**

- VSP2m: single-phase 230V ±10% 50/60Hz
- VSP2 : three-phase 400V ±10% 50/60Hz



## VSP2 – FCR

Pressurization units comprise two multistage centrifugal pumps with an integrated inverter in the motor, capable of maintaining constant pressure in the system. They are used for water supply in residential, commercial, and public buildings, as well as for garden irrigation and general clean water movement.

### TECHNICAL DATA

- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature between **-5 °C** and **+40 °C**
- Max. pressure in the pump body **10 bar**
- Continuous running duty **S1**



## VSP2 – PLURIJET

Pressurization units comprise two self-priming multistage centrifugal pumps with an integrated inverter in the motor, capable of maintaining a constant pressure in the system. They are utilized for water supply, including from underground reservoirs, in residential, commercial, and public buildings, as well as for garden irrigation and general clean water movement.

### TECHNICAL DATA

- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature between **-5 °C** and **+40 °C**
- Max. pressure in the pump body **10 bar**
- Continuous running duty **S1**



## VSP2 – MK

Pressurization units comprise two vertical multistage pumps with an integrated inverter in the motor, capable of maintaining a constant pressure in the system. They are used for water supply in residential, commercial, and public buildings, as well as for handling clean water.

### TECHNICAL DATA

- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature between **-5 °C** and **+40 °C**
- Max. pressure in pump body **11 bar**
- Continuous running duty **S1**



## VSP2 - HT PRO

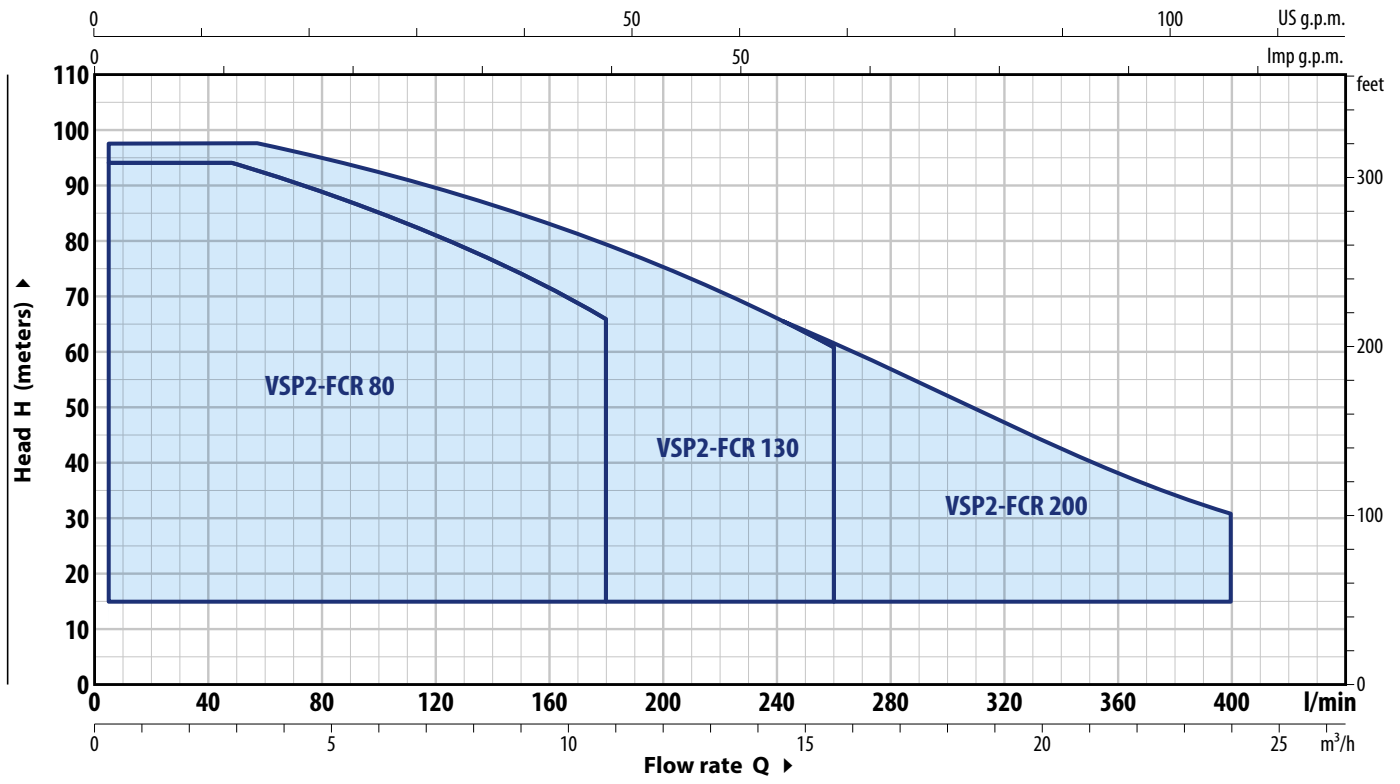
Pressurization units comprise two vertical multistage pumps with integrated inverters in the motor to maintain consistent pressure in the system. They're commonly used for water supply in commercial and public buildings, irrigation in parks and athletic fields, and for industrial water treatment.

### TECHNICAL DATA

- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature between **-5 °C** and **+40 °C**
- Max. pressure in pump body **16 bar**
- Continuous running duty **S1**

# VSP2 – FCR

## FIELD AND PERFORMANCE DATA

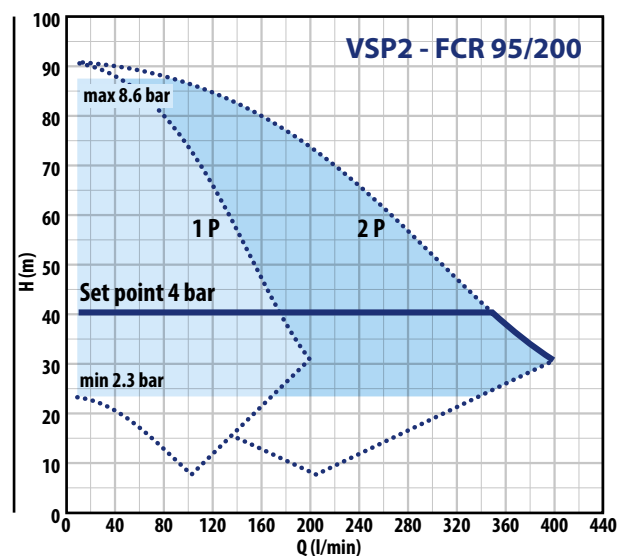
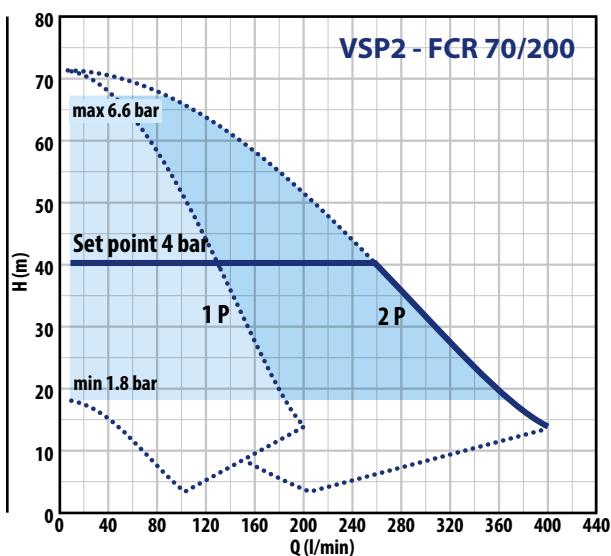
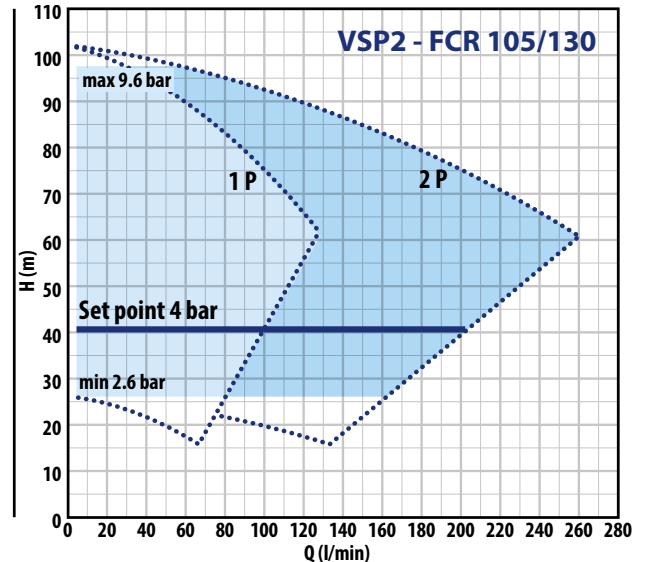
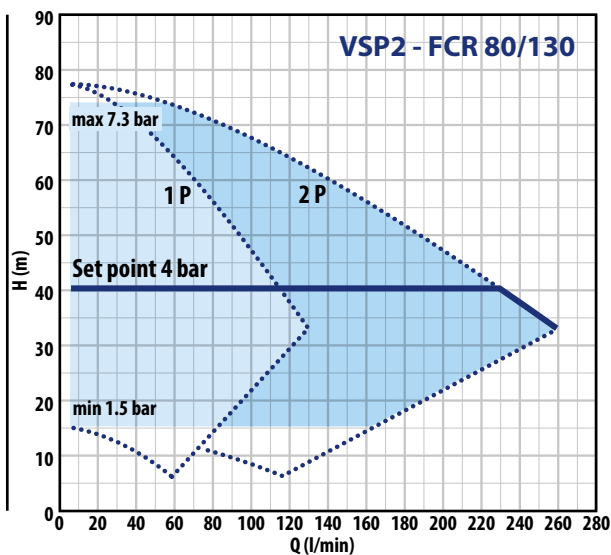
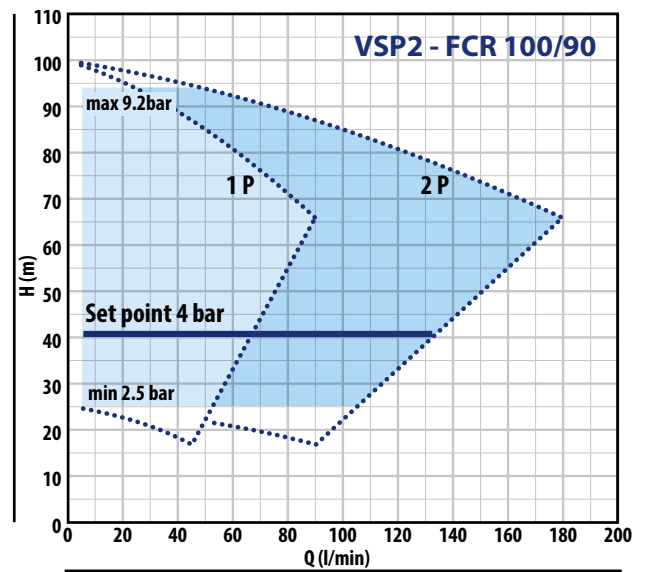
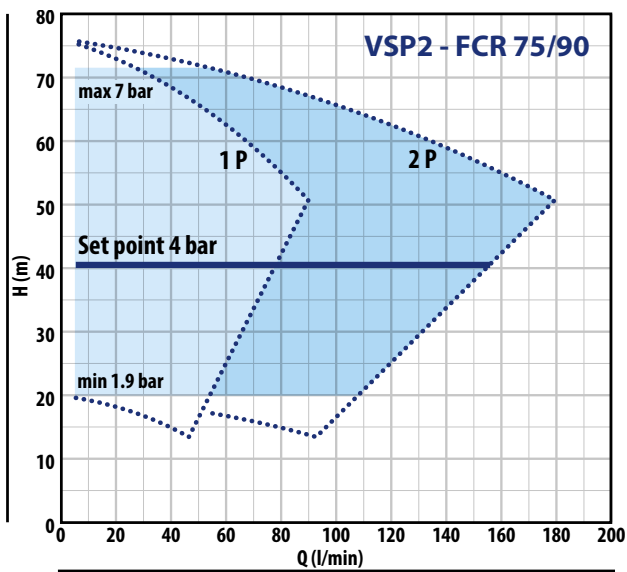


MODEL		POWER P <sub>2</sub>		Q	Flow rate									
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	2.4	4.8	6	7.2	9.6	10.8	
					l/min	0	5	40	80	100	120	160	180	
VSP2m - FCR 75/90	VSP2 - FCR 75/90	2×1.5	2×2	H m	71.5	71.5	71.5	68.5	66	63	55.5	50.5		
-	VSP2 - FCR 100/90	2×2.2	2×3		94	94	94	89	85	80.5	71	66		

MODEL		POWER P <sub>2</sub>		Q	Flow rate									
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	2.4	4.8	7.2	9.6	12	14.4	15.6
					l/min	0	5	40	80	120	160	200	240	260
VSP2m - FCR 80/130	VSP2 - FCR 80/130	2×1.5	2×2	H m	74.5	74.5	74.5	71	64.5	56	47	38	33.5	
-	VSP2 - FCR 105/130	2×2.2	2×3		98	98	98	95.5	90	83.5	75.5	66	61	

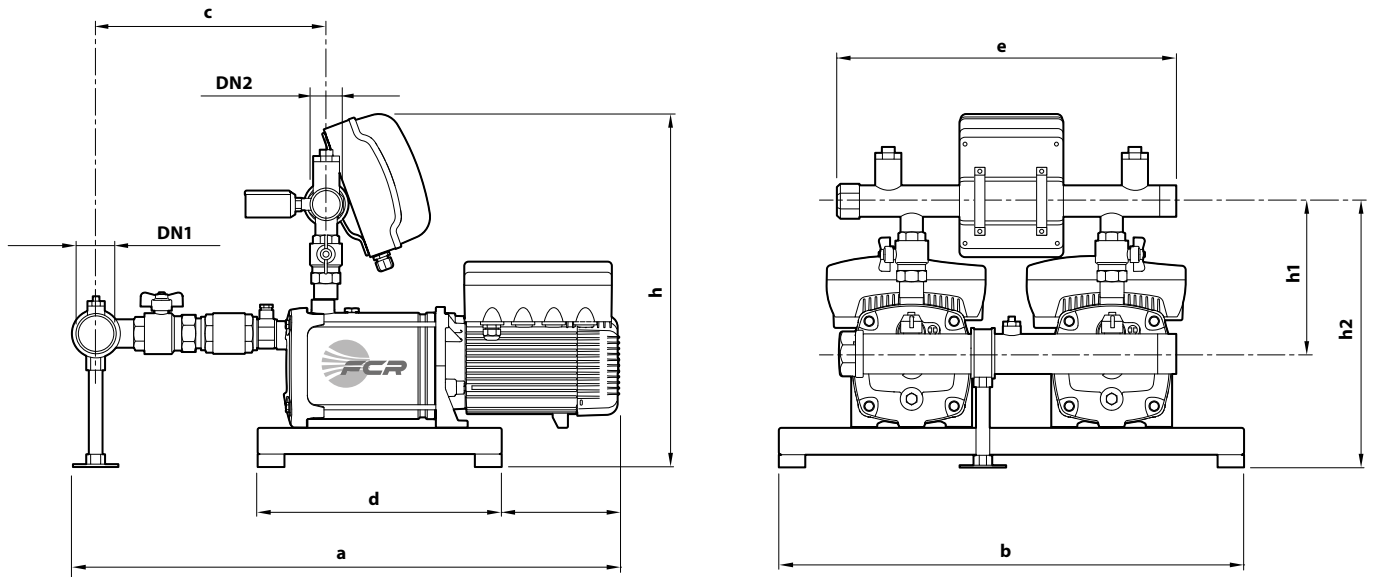
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Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	2.4	4.8	7.2	9.6	12	14.4	18	20.4	24
					l/min	0	5	40	80	120	160	200	240	300	340	400
VSP2m - FCR 70/200	VSP2 - FCR 70/200	2×1.5	2×2	H m	67.5	67.5	67.5	67.5	64	58.5	51.5	44	31.5	23.5	14	
-	VSP2 - FCR 95/200	2×2.2	2×3		87.5	87.5	87.5	87.5	85	80.5	74	66	52.5	43	31	

**PERFORMANCE CURVES**



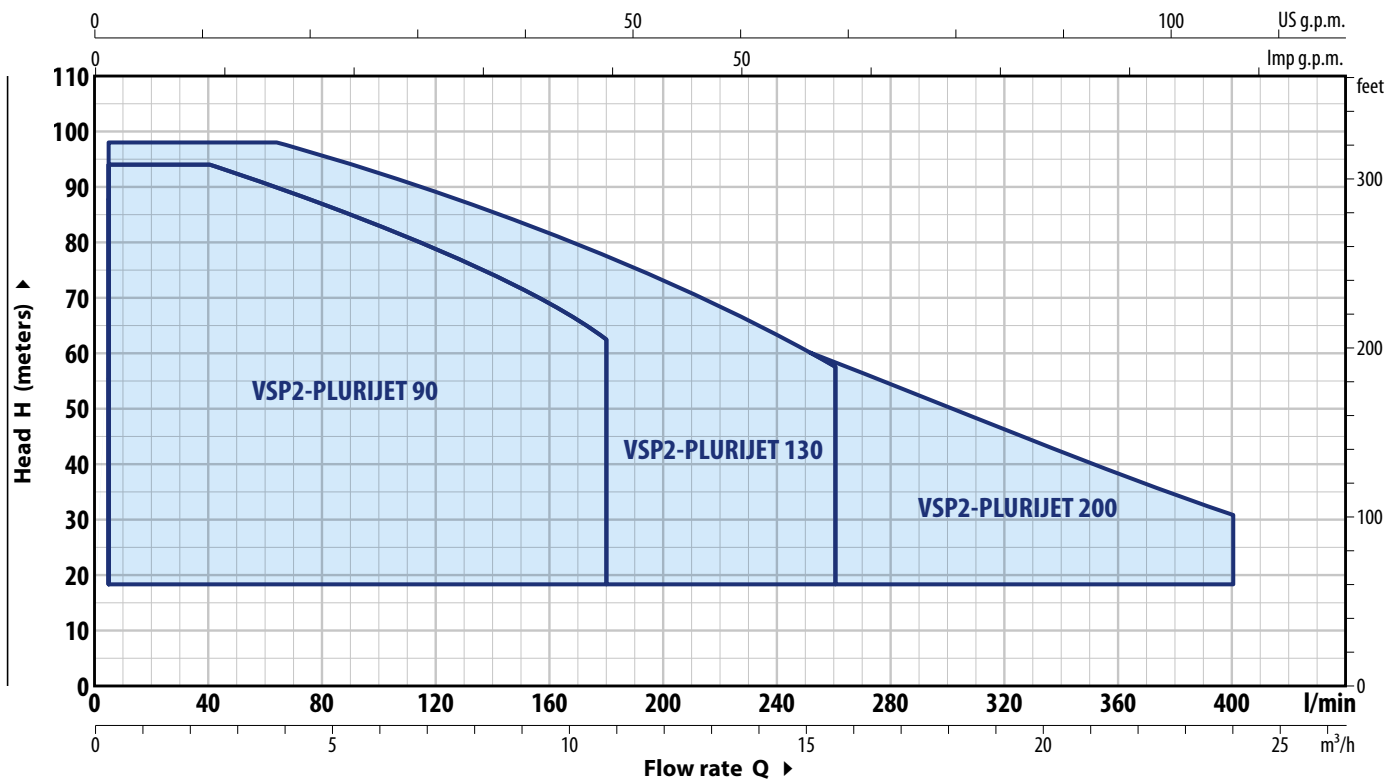
# VSP2 – FCR

## DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm								kg	
Single-phase	Three-phase	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
VSP2m - FCR 75/90	VSP2 - FCR 75/90	2"	1½"	760	700	339	370	510	560	205	394	80	80
-	VSP2 - FCR 100/90			786								-	81
VSP2m - FCR 80/130	VSP2 - FCR 80/130			760								81	81
-	VSP2 - FCR 105/130			786								-	81
VSP2m - FCR 70/200	VSP2 - FCR 70/200	2½"	1½"	803	375							87	87
-	VSP2 - FCR 95/200			829								-	87

## FIELD AND PERFORMANCE DATA



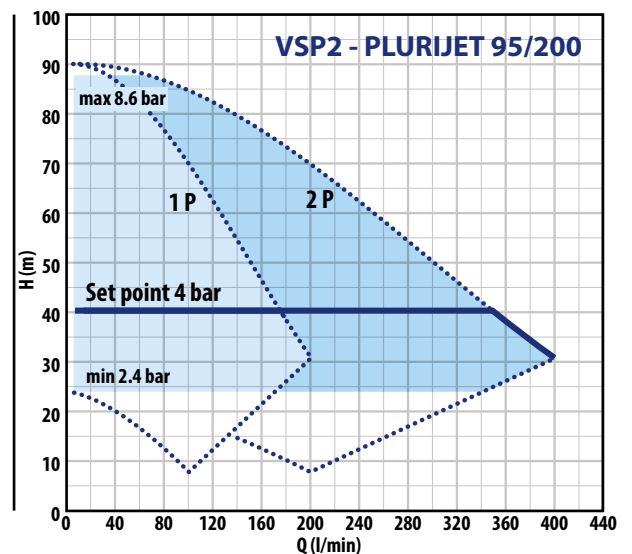
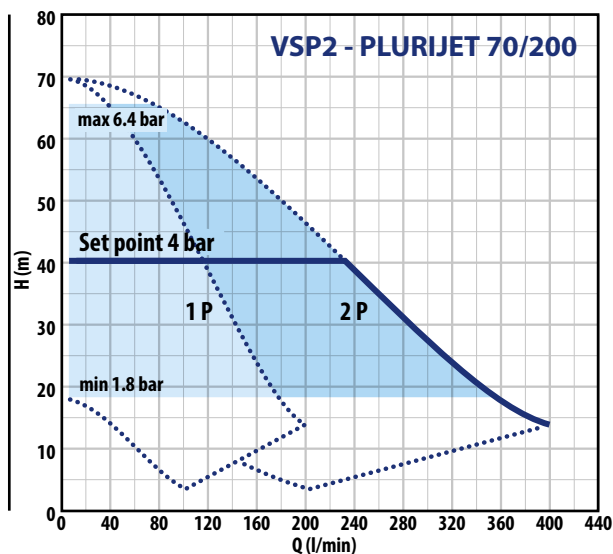
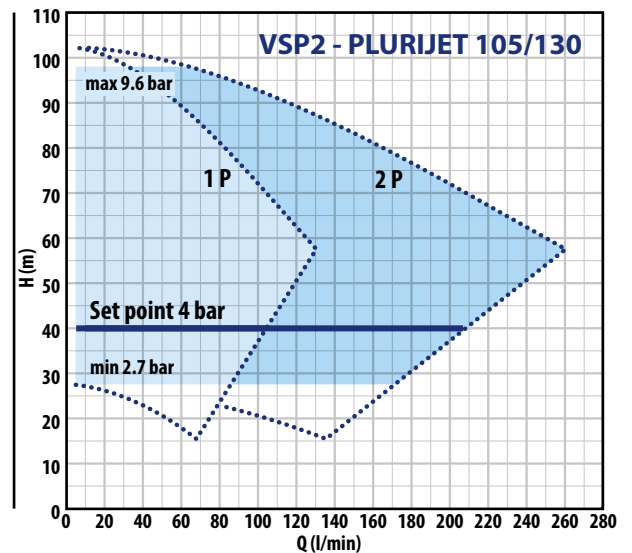
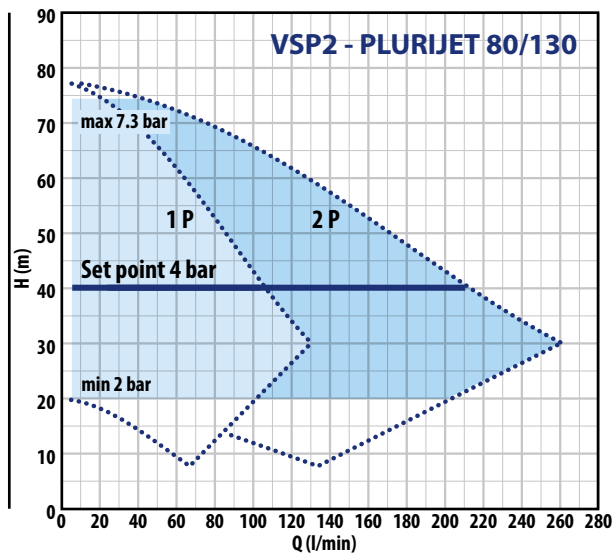
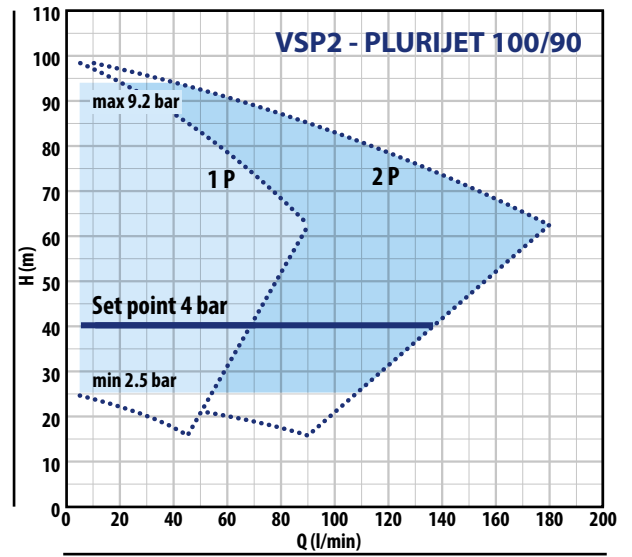
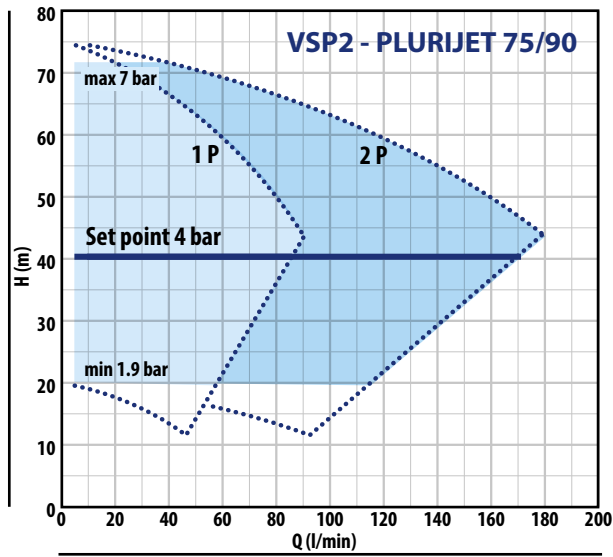
MODEL		POWER P <sub>2</sub>		Q	Flow rate									
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	2.4	4.8	6	7.2	9.6	10.8	
				l/min	0	5	40	80	100	120	160	180		
VSP2m - PJ 75/90	VSP2 - PJ 75/90	2×1.5	2×2	H m	71.5	71.5	71	66	63	59.5	49.5	43.5		
-	VSP2 - PJ 100/90	2×2.2	2×3		94	94	94	87.5	83	78.5	68	62.5		

MODEL		POWER P <sub>2</sub>		Q	Flow rate										
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	2.4	4.8	7.2	9.6	12	14.4	15.6	
				l/min	0	5	40	80	120	160	200	240	260		
VSP2m - PJ 80/130	VSP2 - PJ 80/130	2×1.5	2×2	H m	74.5	74.5	74.5	69.5	62	52.5	43	34	30		
-	VSP2 - PJ 105/130	2×2.2	2×3		98	98	98	96	89.5	81	72	62	57.5		

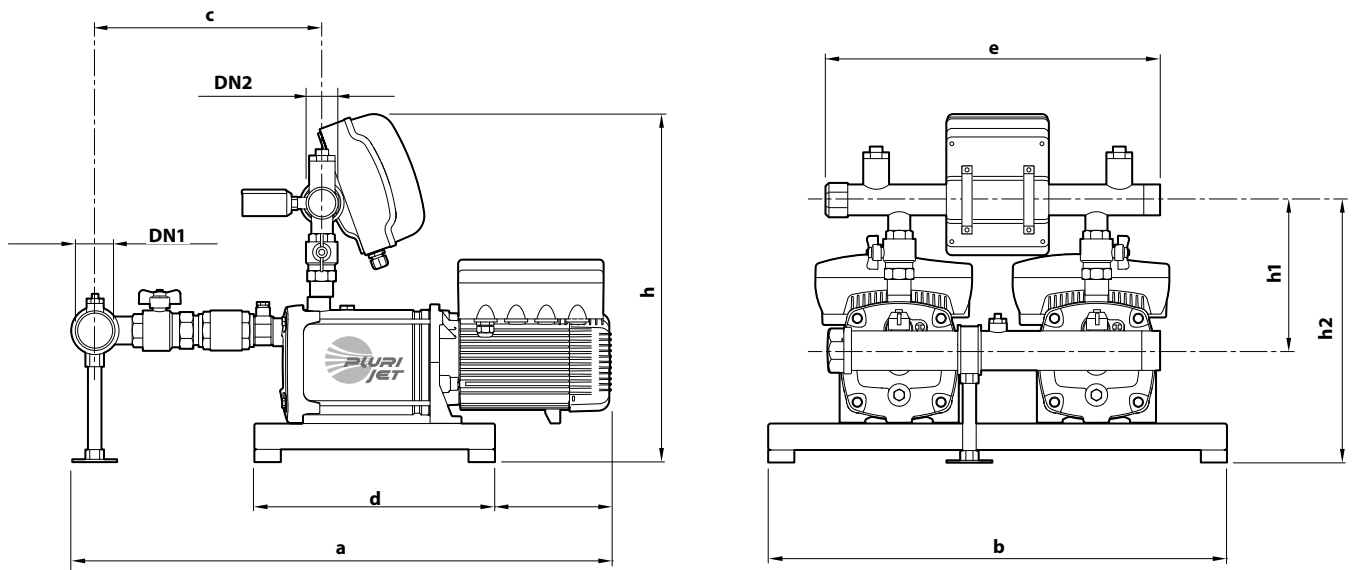
MODEL		POWER P <sub>2</sub>		Q	Flow rate										
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	2.4	4.8	7.2	9.6	12	14.4	18	20.4
				l/min	0	5	40	80	120	160	200	240	300	340	400
VSP2m - PJ 70/200	VSP2 - PJ 70/200	2×1.5	2×2	H m	65.5	65.5	65.5	65	60	53.5	46	38.5	27.5	21	14
-	VSP2 - PJ 95/200	2×2.2	2×3		87.5	87.5	87.5	87	82.5	76.5	70	62.5	50.5	42	31

# VSP2 - PLURIJET

## PERFORMANCE CURVES



## DIMENSIONS AND WEIGHT

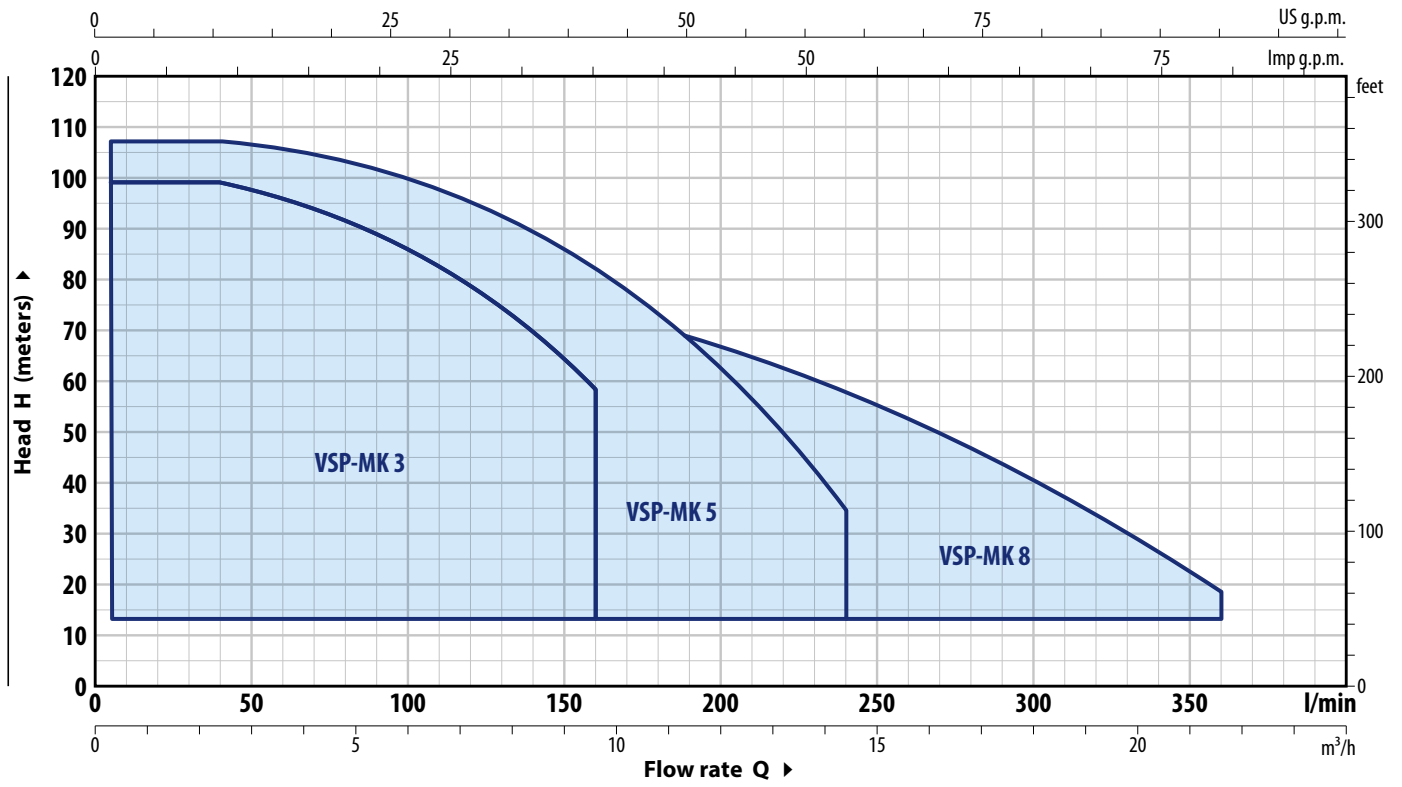


MODEL		PORTS		DIMENSIONS mm									kg	
Single-phase	Three-phase	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~	
VSP2m - PLURIJET 75/90	VSP2 - PLURIJET 75/90	2"	1½"	812	700	339	370	510	560	205	394	80	80	
-	VSP2 - PLURIJET 100/90			838								-	85	
VSP2m - PLURIJET 80/130	VSP2 - PLURIJET 80/130			812								80	81	
-	VSP2 - PLURIJET 105/130			838								-	85	
VSP2m - PLURIJET 70/200	VSP2 - PLURIJET 70/200	2½"	1½"	855	700	375	370	510	560	205	394	83	83	
-	VSP2 - PLURIJET 95/200			881								-	87	



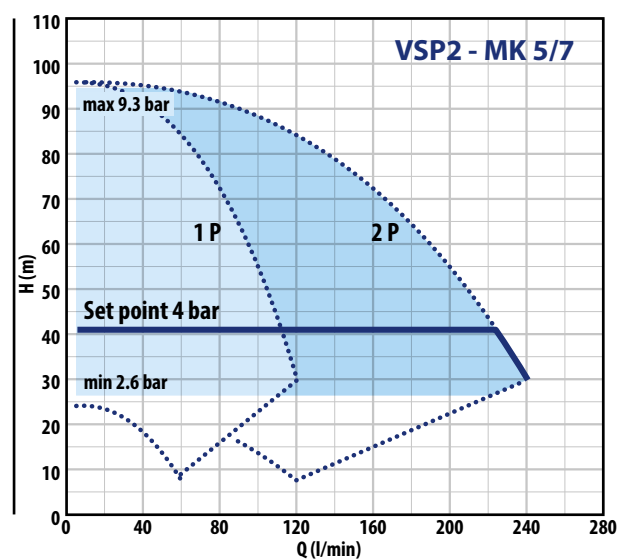
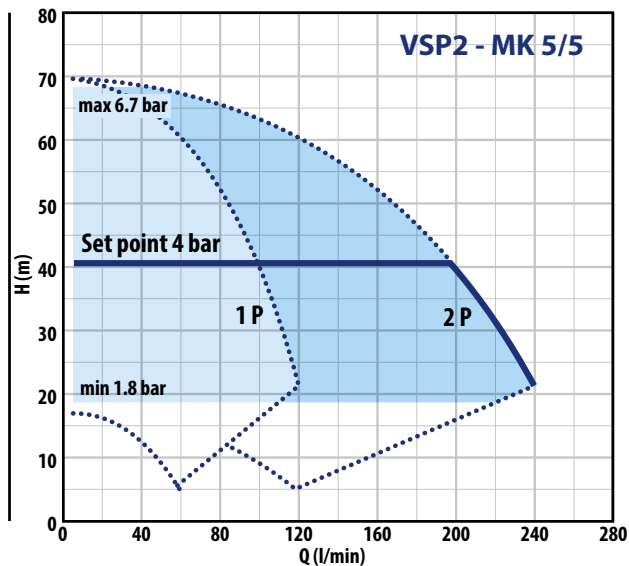
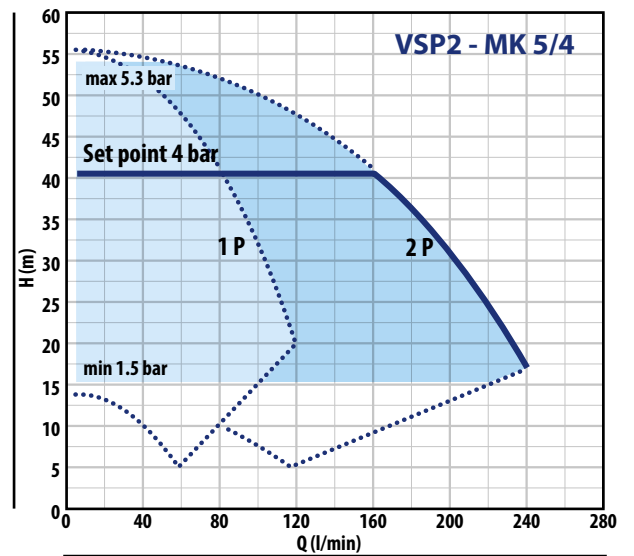
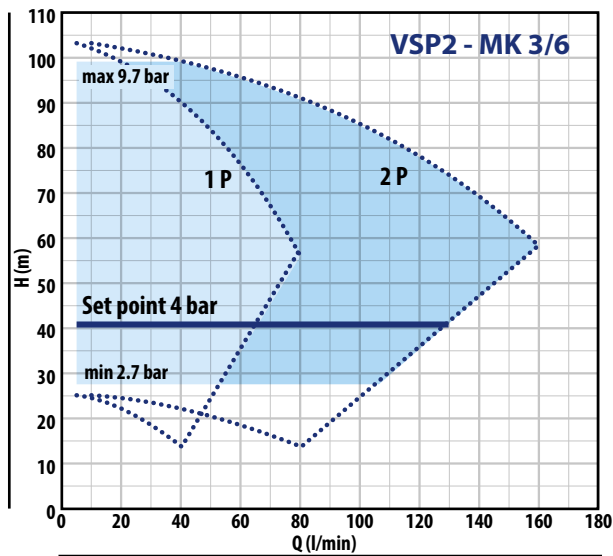
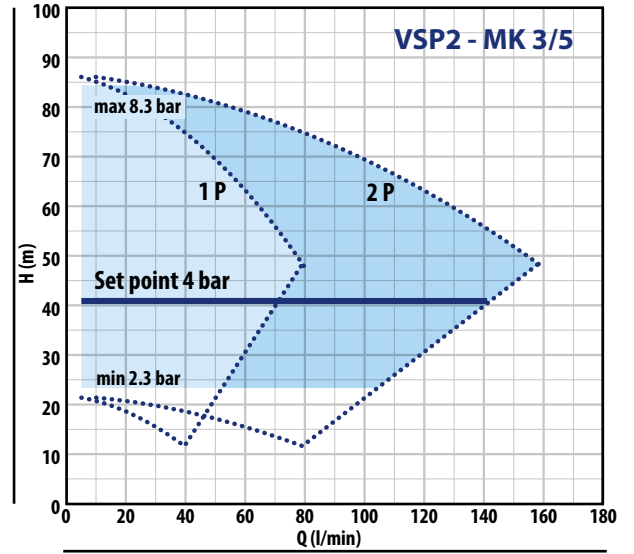
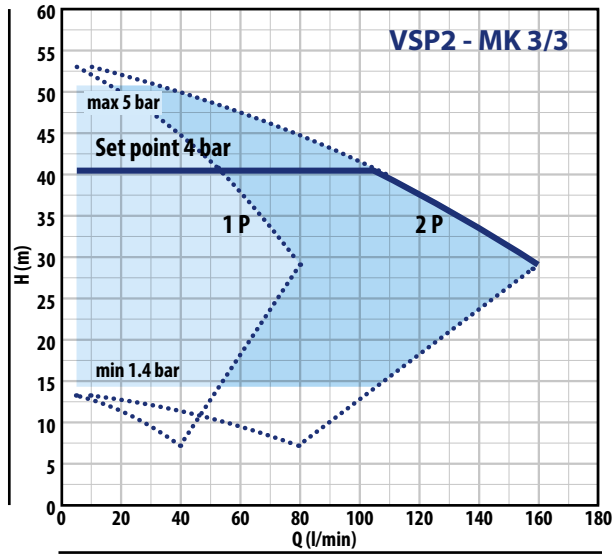
# VSP2 - MK

## FIELD AND PERFORMANCE DATA



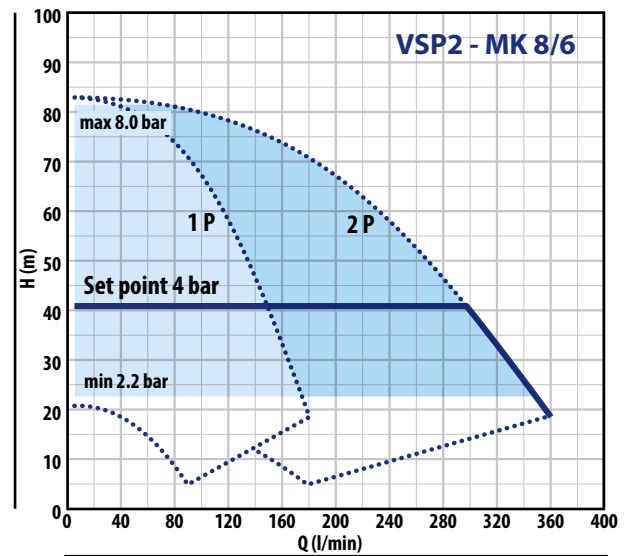
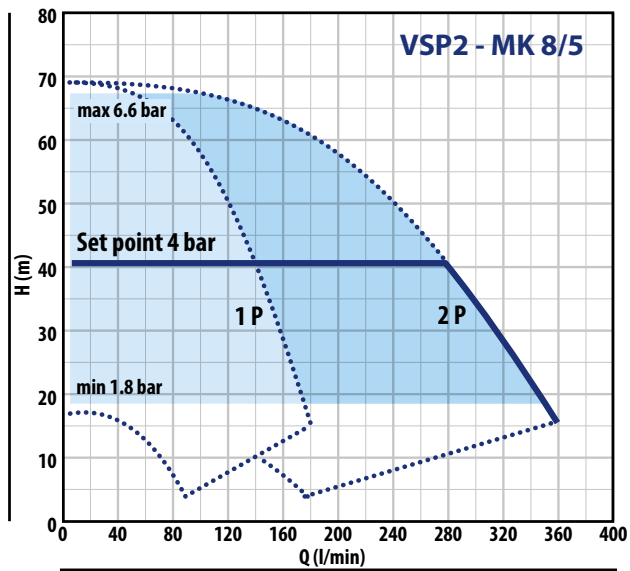
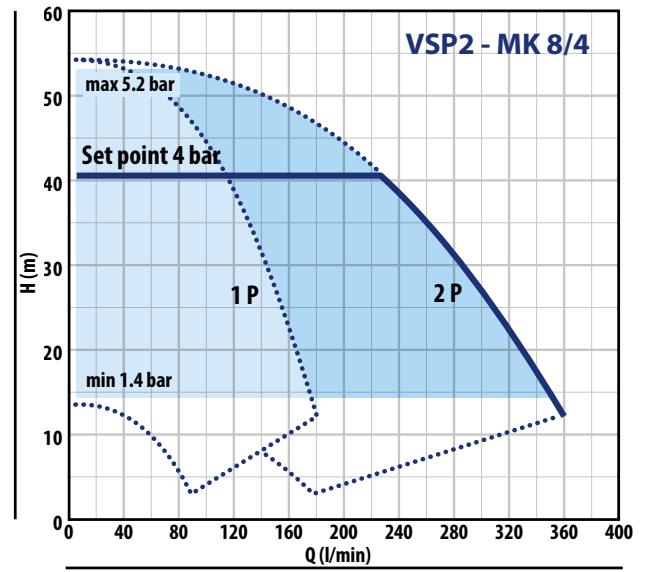
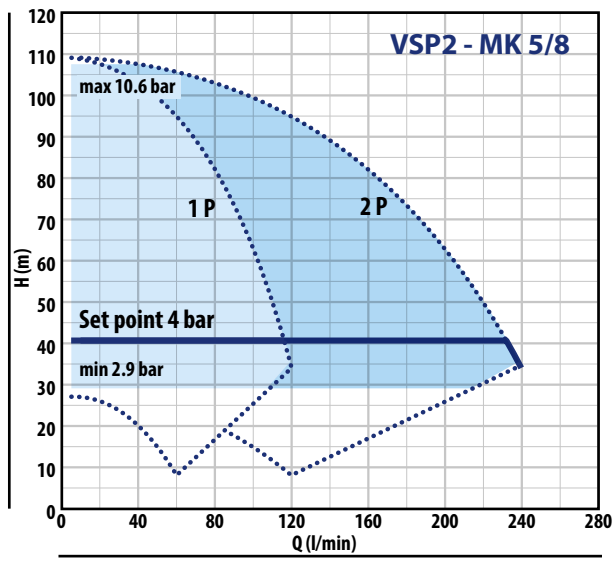
MODEL		POWER P <sub>2</sub>		Q	H m													
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.6	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	21.6		
				l/min	0	5	40	80	120	160	200	240	280	320	360			
VSP2m - MK 3/3	VSP2 - MK 3/3	2×0.75	2×1	H m	51	51	50	45	38.5	29								
VSP2m - MK 3/5	VSP2 - MK 3/5	2×1.1	2×1.5		84.5	84.5	83	75	64	48								
VSP2m - MK 3/6	VSP2 - MK 3/6	2×1.5	2×2		99	99	99	90	77	58								
VSP2m - MK 5/4	VSP2 - MK 5/4	2×0.75	2×1		54	54	54	50	45	37.5	28.5	17						
VSP2m - MK 5/5	VSP2 - MK 5/5	2×1.1	2×1.5		68.5	68.5	67.5	62.5	56	47	35.5	21.5						
VSP2m - MK 5/7	VSP2 - MK 5/7	2×1.5	2×2		95	95	95	88	78	66	50	30						
-	VSP2 - MK 5/8	2×2.2	2×3		108	108	108	100	90	75	57	34						
VSP2m - MK 8/4	VSP2 - MK 8/4	2×1.1	2×1.5		53	53	53	53	51	47.5	43	37.5	30.5	22.1	12			
VSP2m - MK 8/5	VSP2 - MK 8/5	2×1.5	2×2		67.5	67.5	67.5	67	64	59.5	54	47	38	27.5	15.5			
-	VSP2 - MK 8/6	2×2.2	2×3		81.5	81.5	81.5	80	77	72	64.5	56	45.5	33	18.5			

**PERFORMANCE CURVES**

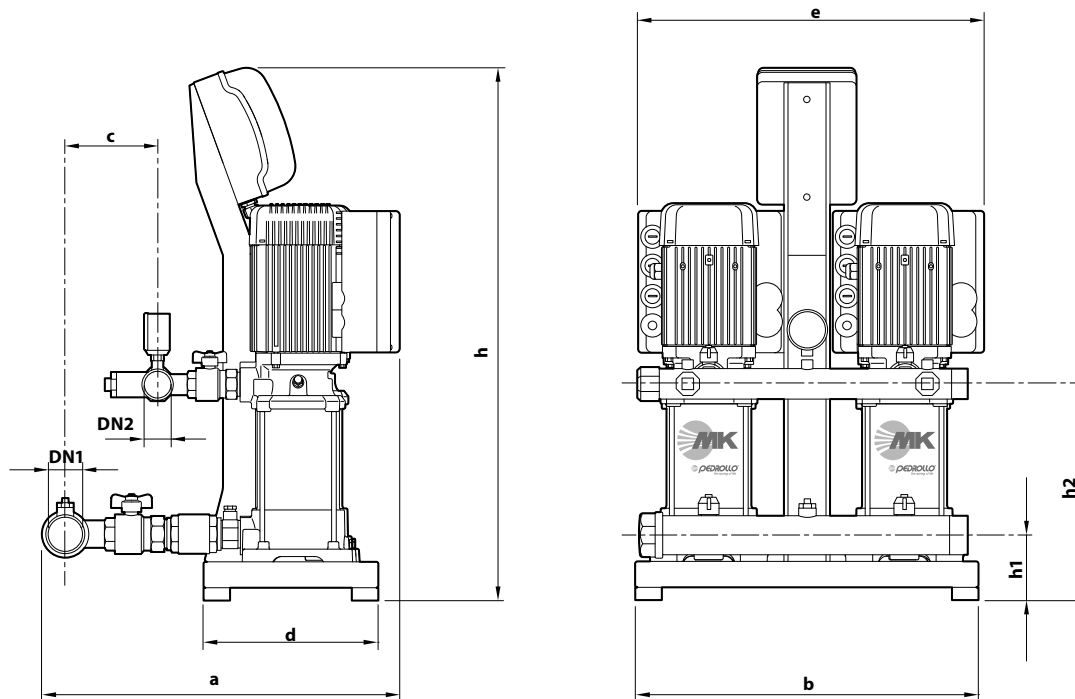


# VSP2 - MK

## PERFORMANCE CURVES



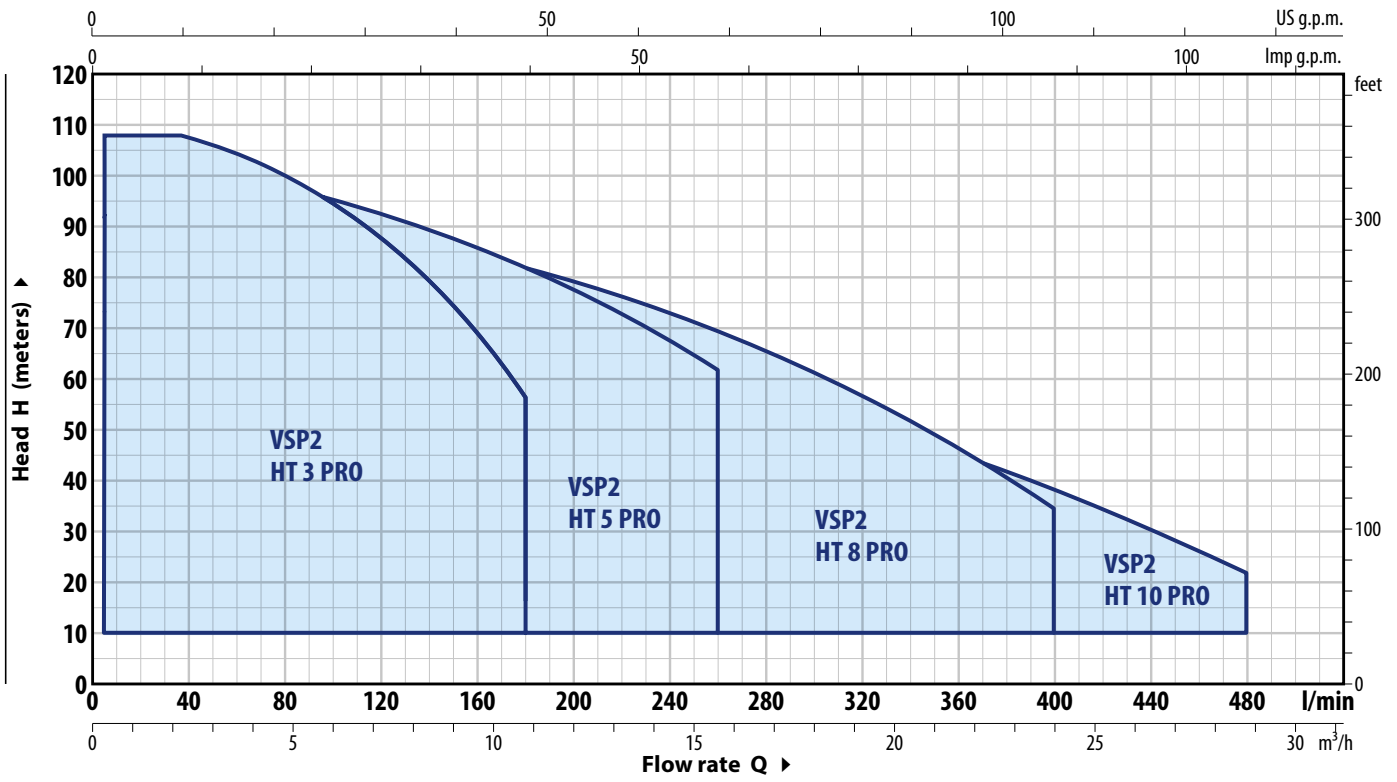
## DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm								kg	
Single-phase	Three-phase	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
VSP2m - MK 3/3	VSP2 - MK 3/3	2"	1½"	555	530	135	270	510	863	102	235	75	75
VSP2m - MK 3/5	VSP2 - MK 3/5										289	79	79
VSP2m - MK 3/6	VSP2 - MK 3/6										316	83	83
VSP2m - MK 5/4	VSP2 - MK 5/4										262	76	76
VSP2m - MK 5/5	VSP2 - MK 5/5										289	79	79
VSP2m - MK 5/7	VSP2 - MK 5/7										343	83	83
-	VSP2 - MK 5/8										370	-	84
VSP2m - MK 8/4	VSP2 - MK 8/4	2½"	1½"	600							316	82	82
VSP2m - MK 8/5	VSP2 - MK 8/5										262	83	83
-	VSP2 - MK 8/6										289	-	89

# VSP2 - HT-PRO

## FIELD AND PERFORMANCE DATA



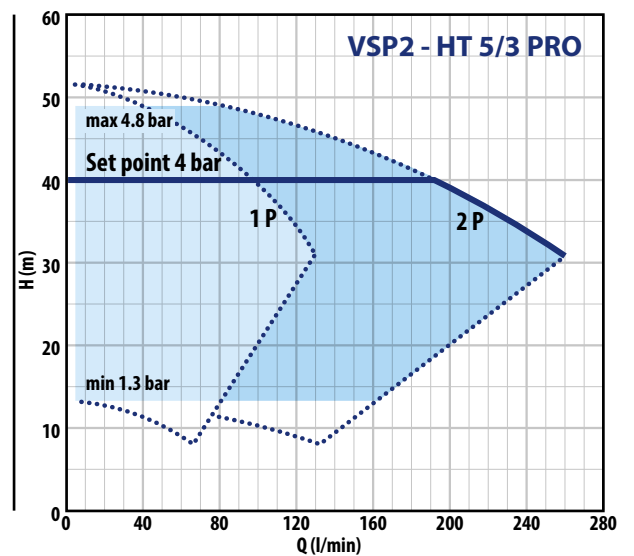
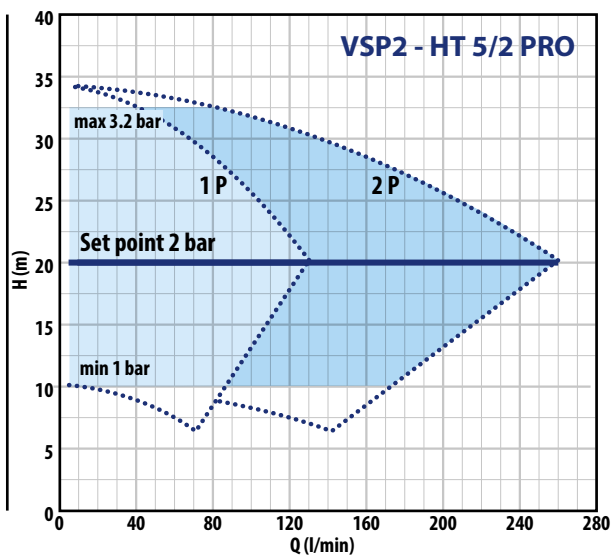
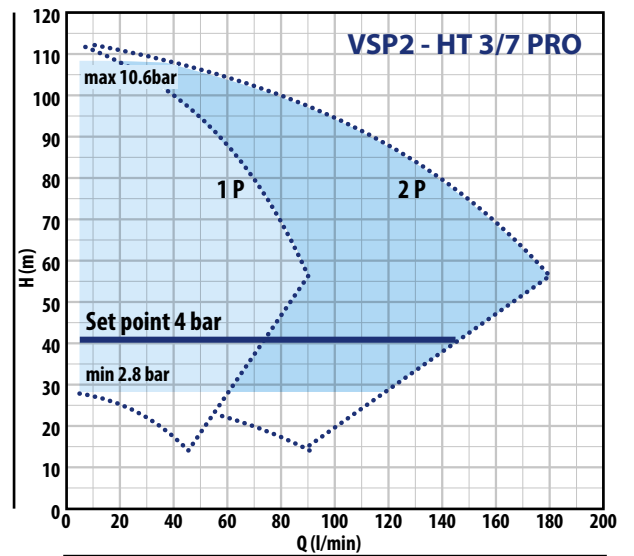
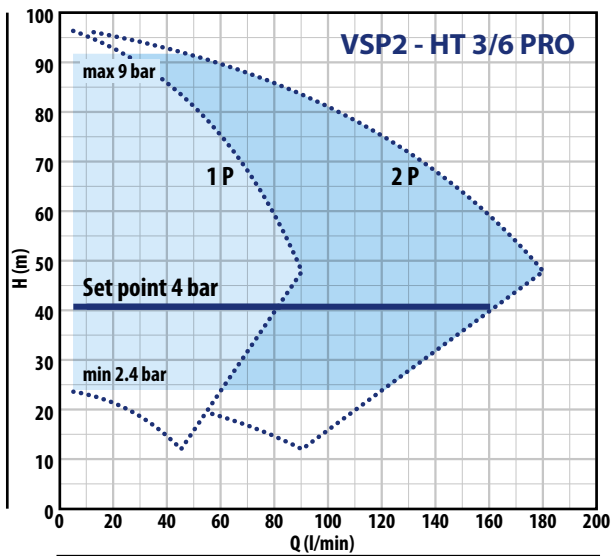
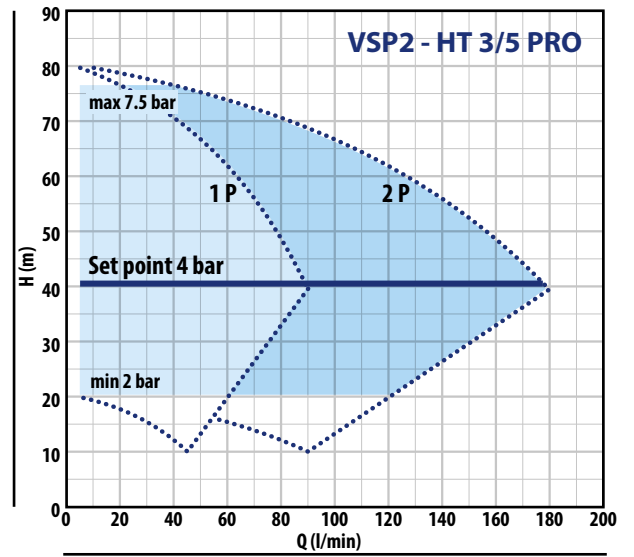
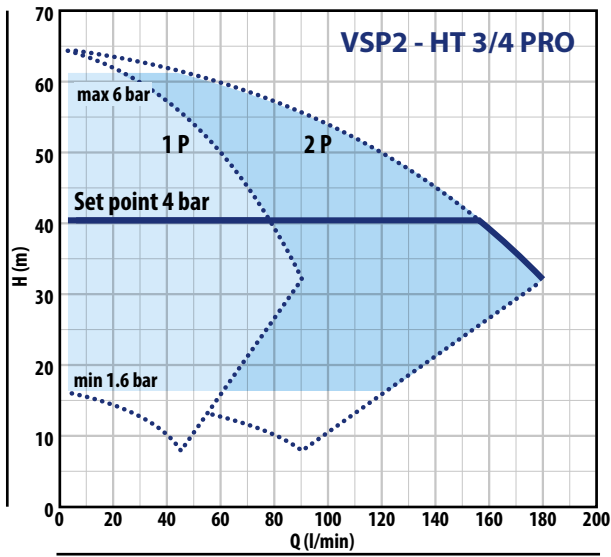
MODEL		POWER P <sub>2</sub>		Q										
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	2.4	3.6	4.8	6	7.2	8.4	9.6
VSP2m - HT3/4 PRO	VSP2 - HT3/4 PRO	2×0.75	2×1	H m	0	5	40	60	80	100	120	140	160	180
VSP2m - HT3/5 PRO	VSP2 - HT3/5 PRO	2×1.1	2×1.5		61	61	61	59.5	57	54	50	45.5	39.5	32
VSP2m - HT3/6 PRO	VSP2 - HT3/6 PRO	2×1.5	2×2		76.5	76.5	76.5	74.5	71.5	67.5	63	56.5	49.5	40
-	VSP2 - HT3/7 PRO	2×1.8	2×2.5		92	92	92	89.5	85.5	81	75.5	68	59	48
					108	108	107.5	104	100	94.5	88	79.5	69	56

MODEL		POWER P <sub>2</sub>		Q									
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	4.8	7.2	9.6	10.8	12	15.6
VSP2m - HT5/2 PRO	VSP2 - HT5/2 PRO	2×0.75	2×1	H m	0	5	80	120	160	180	200	260	
VSP2m - HT5/3 PRO	VSP2 - HT5/3 PRO	2×1.1	2×1.5		32.5	32.5	32.5	31	28.5	27.5	26	20.5	
VSP2m - HT5/4 PRO	VSP2 - HT5/4 PRO	2×1.5	2×2		49	49	49	46.5	43	41	39	31	
-	VSP2 - HT5/5 PRO	2×1.8	2×2.5		65.5	65.5	65	62	57.5	55	52	41	
-	VSP2 - HT5/6 PRO	2×2.2	2×3		81.5	81.5	81.5	77.5	72	68.5	65	51.5	
					97	97	97	92.5	86	82.5	78	62	

MODEL		POWER P <sub>2</sub>		Q										
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	4.8	7.2	9.6	10.8	14.4	18	21.6
VSP2m - HT8/3 PRO	VSP2 - HT8/3 PRO	2×1.1	2×1.5	H m	0	5	80	120	160	180	240	300	360	400
VSP2m - HT8/4 PRO	VSP2 - HT8/4 PRO	2×1.5	2×2		45	45	45	44	42	41	36.5	30.5	23	17
-	VSP2 - HT8/5 PRO	2×1.8	2×2.5		60	60	60	58.5	56	54.5	48.5	40.5	31	23
-	VSP2 - HT8/6 PRO	2×2.2	2×3		74.5	74.5	74.5	73.5	70	68	61	51	38.5	28.5
					91	91	91	88	84	82	73	61	46	34.5

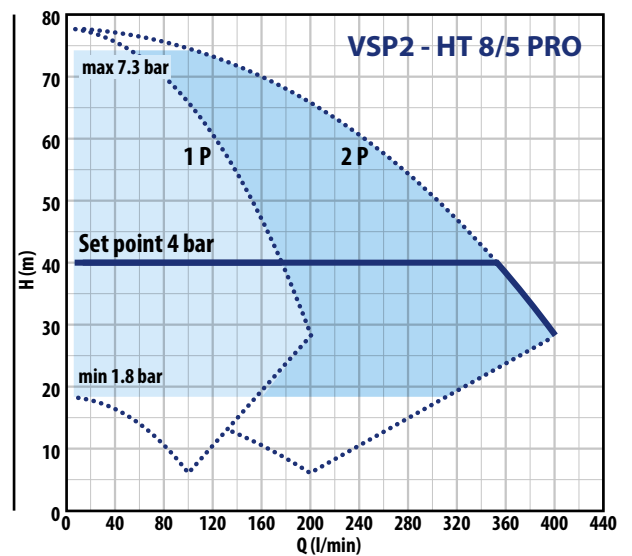
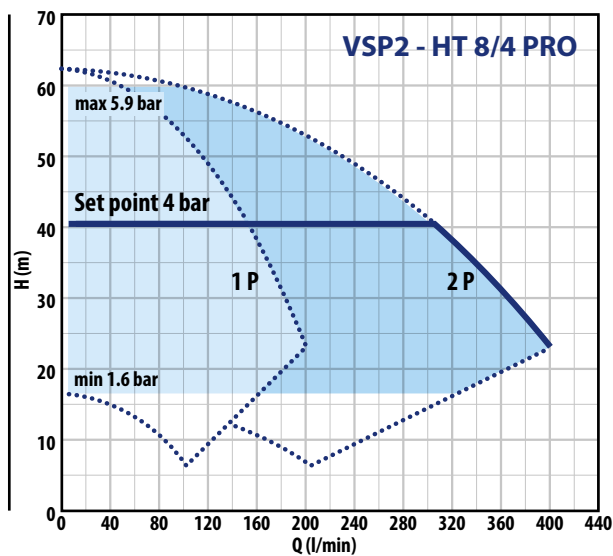
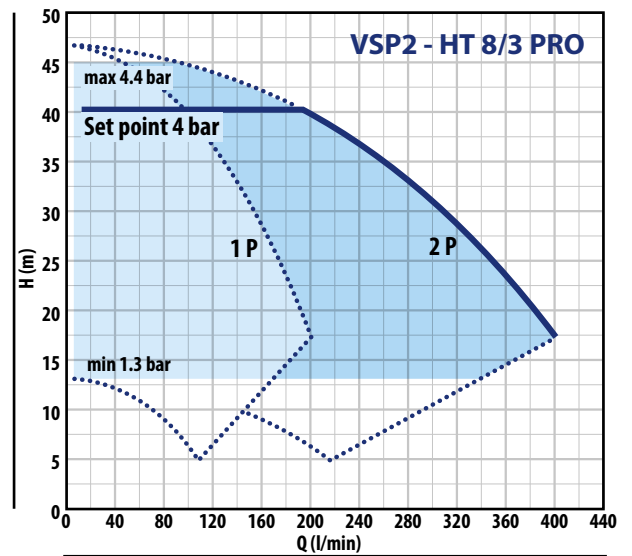
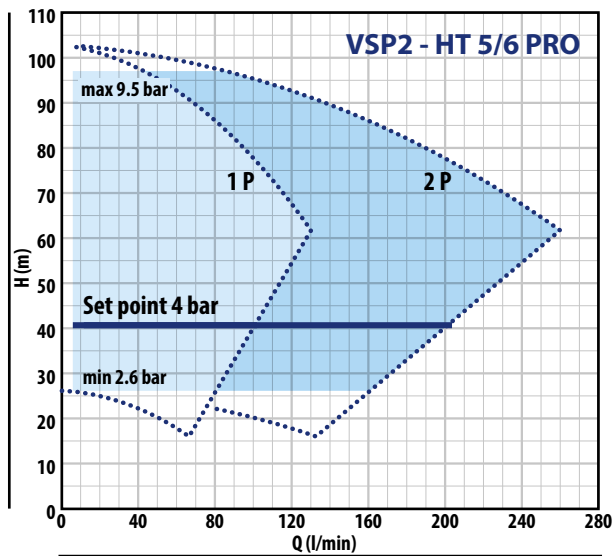
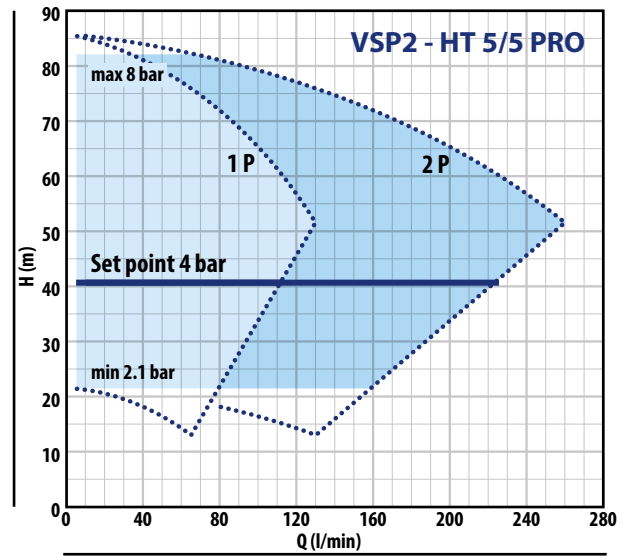
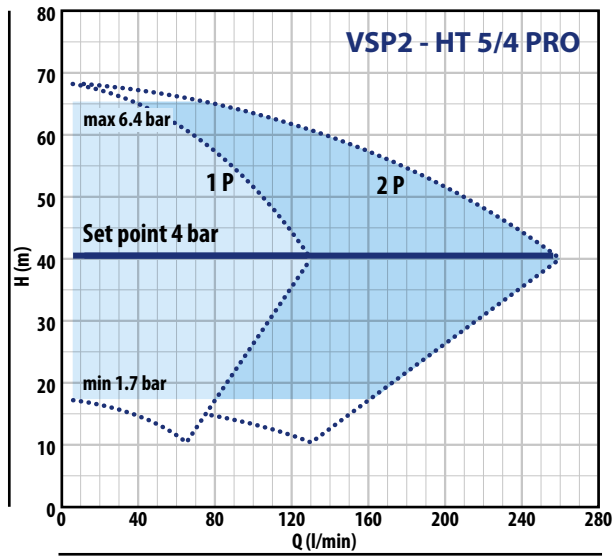
MODEL		POWER P <sub>2</sub>		Q											
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	4.8	7.2	9.6	12	14.4	18	22.8	26.4
VSP2m - HT10/3 PRO	VSP2 - HT10/3 PRO	2×1.5	2×2	H m	0	5	80	120	160	200	240	300	380	440	480
-	VSP2 - HT10/4 PRO	2×1.8	2×2.5		45	45	45	43.5	42	40	38	33.5	26.5	20.5	13
-	VSP2 - HT10/5 PRO	2×2.2	2×3		60	60	60	58	56	53.5	50.5	45	35.5	27	17
					73.5	73.5	73.5	72.5	70	67	63	56	44.5	34	21.5

**PERFORMANCE CURVES**

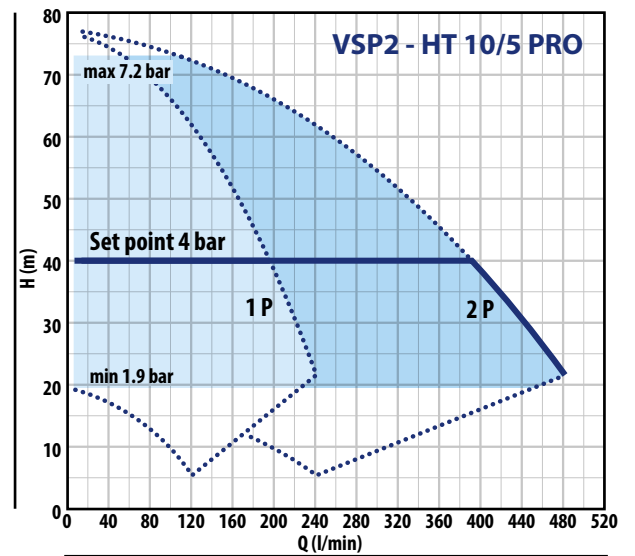
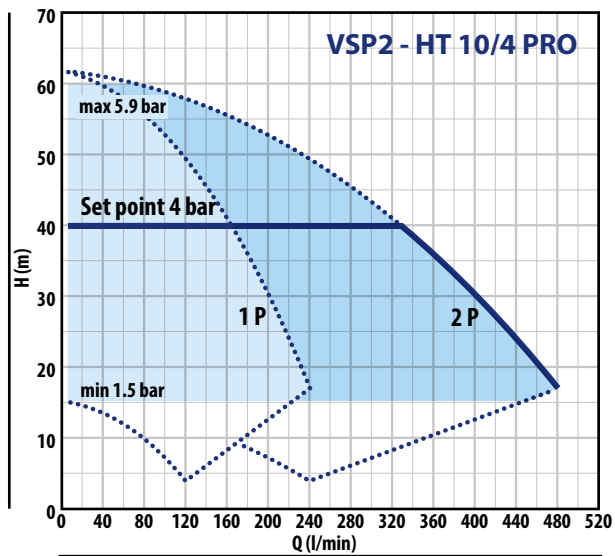
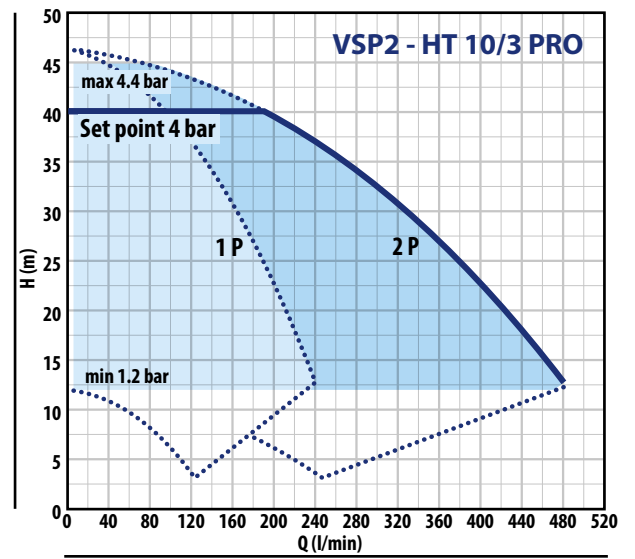
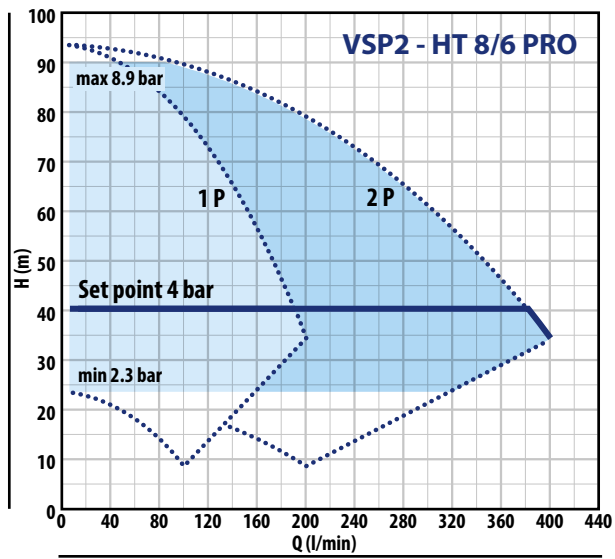


# VSP2 - HT-PRO

## PERFORMANCE CURVES



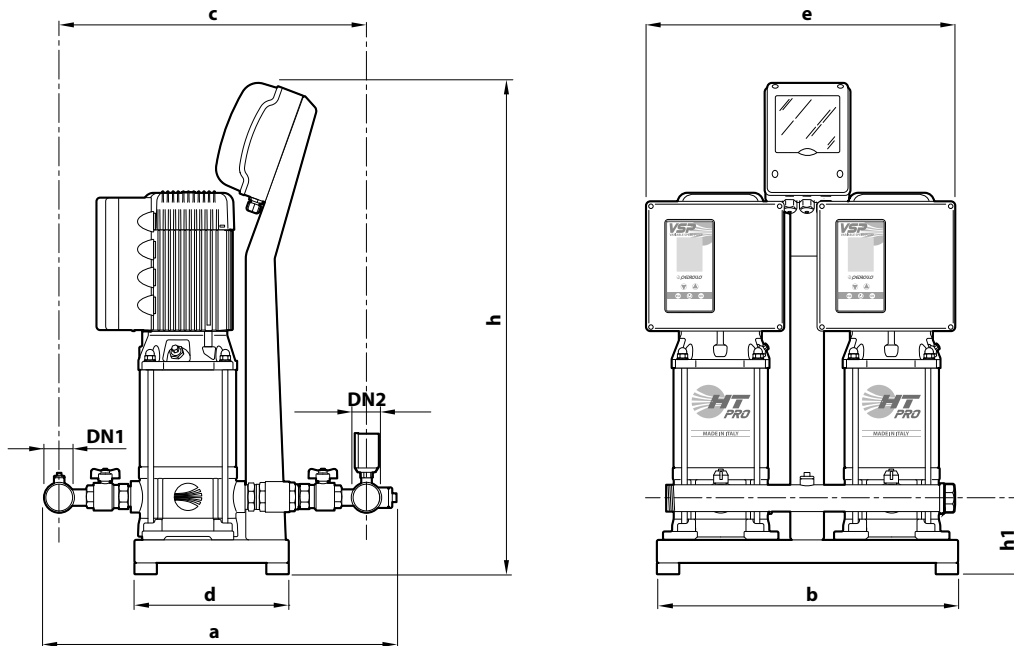
**PERFORMANCE CURVES**





# VSP2 – HT-PRO

## DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm							kg	
Single-phase	Three-phase	DN1	DN2	a	b	c	d	e	h	h1	1~	3~
VSP2m-HT 3/4 PRO	VSP2-HT 3/4 PRO	2"	2"	694	530	576	270	542	863	135	97	97
VSP2m-HT 3/5 PRO	VSP2-HT 3/5 PRO										97	97
VSP2m-HT 3/6 PRO	VSP2-HT 3/6 PRO										100	100
-	VSP2-HT 3/7 PRO										-	110
VSP2m-HT 5/2 PRO	VSP2-HT 5/2 PRO	2"	2"	740	530	622	270	542	863	135	96	96
VSP2m-HT 5/3 PRO	VSP2-HT 5/3 PRO										96	96
VSP2m-HT 5/4 PRO	VSP2-HT 5/4 PRO										100	100
-	VSP2-HT 5/5 PRO										-	105
-	VSP2-HT 5/6 PRO										-	107
VSP2m-HT 8/3 PRO	VSP2-HT 8/3 PRO	2½"	2½"	833	530	698	270	542	863	140	101	101
VSP2m-HT 8/4 PRO	VSP2-HT 8/4 PRO										105	105
-	VSP2-HT 8/5 PRO										-	112
-	VSP2-HT 8/6 PRO										-	114
VSP2m - HT 10/3 PRO	VSP2 - HT 10/3 PRO										101	101
-	VSP2 - HT 10/4 PRO										-	105
-	VSP2 - HT 10/5 PRO										-	112