

# ZDJet.P.DRP-Plus

## По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Брянск (4832)59-03-52	Краснодар (861)203-40-90	Пенза (8412)22-31-16	Томск (3822)98-41-53
Владивосток (423)249-28-31	Красноярск (391)204-63-61	Пермь (342)205-81-47	Тула (4872)74-02-29
Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

# ZDJET.P.DRP-PLUS

## PROVEN PERFORMANCE AND RELIABILITY

4" complete submersible pump, made of ZDS hydraulic part in technopolimer version, ZDS 2-wire single-phase encapsulated water-cooled H2 motor and supply cable in different lengths.

Reliable, strong, easy to maintain and available in a wide range of models; it's ready to use as it doesn't require a start and run control panel.

It is protected against many possible installation or operation faults thanks to the or the DRP-Plus display monitoring protections device.

### DRP-Plus

- LCD display for easy diagnostic
- Soft start technology
- Extra torque on start up when necessary
- Sounder alarm in the event of a fault
- Ready to use, doesn't need any further calibration or setting up
- Self-learning button for possible field approach

DRP-Plus device is designed to guarantee an optimal protection of the ZDJet pump against many possible installation and operation faults: an alarm will be shown on the display in case of current overload, low voltage or high voltage, too frequent starts and stops and dry running; ensuring a high degree of automation and restoration. DRP-Plus allows to continuously monitor the submersible pump, guaranteeing its operation in the most efficient way through a Soft start procedure (first start attempt with low starting torque) and if needed, a Strong start procedure to benefit of more starting torque. DRP-Plus allows to continuously detect and monitor in real time the power: the electrical parameters obtained are processed by a special software, which will efficiently guarantee the correct working conditions. With DRP-Plus, the ZDJet.P.DRP-Plus submersible pump can work and be continuously protected also when actual supply voltage values are at tolerance limit, providing the effectiveness of the protection operation. In addition, DRP-Plus, thanks to a "smart software" at variable time and automatic restart, can ensure the optimization of water withdrawal from the borehole or tank when the pump is dry running.



**kW:** 0,37 - 1,5

**Voltage range:** 220-230V / 50Hz

**Voltage tolerance 50Hz from nominal:** +6% / -10%  $U_n$

**Degree of protection:** IP 68

**Maximum quantity of suspended sand:** 120 g/m<sup>3</sup>

**Insulation:** F

**Rated ambient temperature:** maximum 35° C

**Required cooling flow:** minimum 8 cm/sec

**Mounting:** vertical/horizontal, shaft upwards

**Maximum starts/h:** 150, equally distributed

**Maximum delivery (Q):** 6.000 l/h

**Maximum head (H):** 150 m

**Maximum immersion depth:** 150 m

**Outlet diameter:** 1" ¼

**Allowed range of water pH:** 6,4 - 8,0

## AUTOMATIC PROTECTIONS

### DRY-RUNNING PROTECTION

The device automatically stops the submersible pump showing an alarm on the display, to restart it after a programmed cycle time.

### PROTECTION AGAINST TOO FREQUENT START&STOPS

In case of leaks in the piping system (also when the pressure tank is exhausted or its membrane is damaged, or when there is a defective pressure switch) and too frequent starts and stops (for example if the tank is too small for the system), DRP-Plus automatically makes the pump enter the stand-by mode showing an alarm on the display.

### PROTECTION AGAINST LOW/HIGH VOLTAGE

Avoid motor damages caused by too low or too high power supply voltages.

### CURRENT OVERLOAD PROTECTION

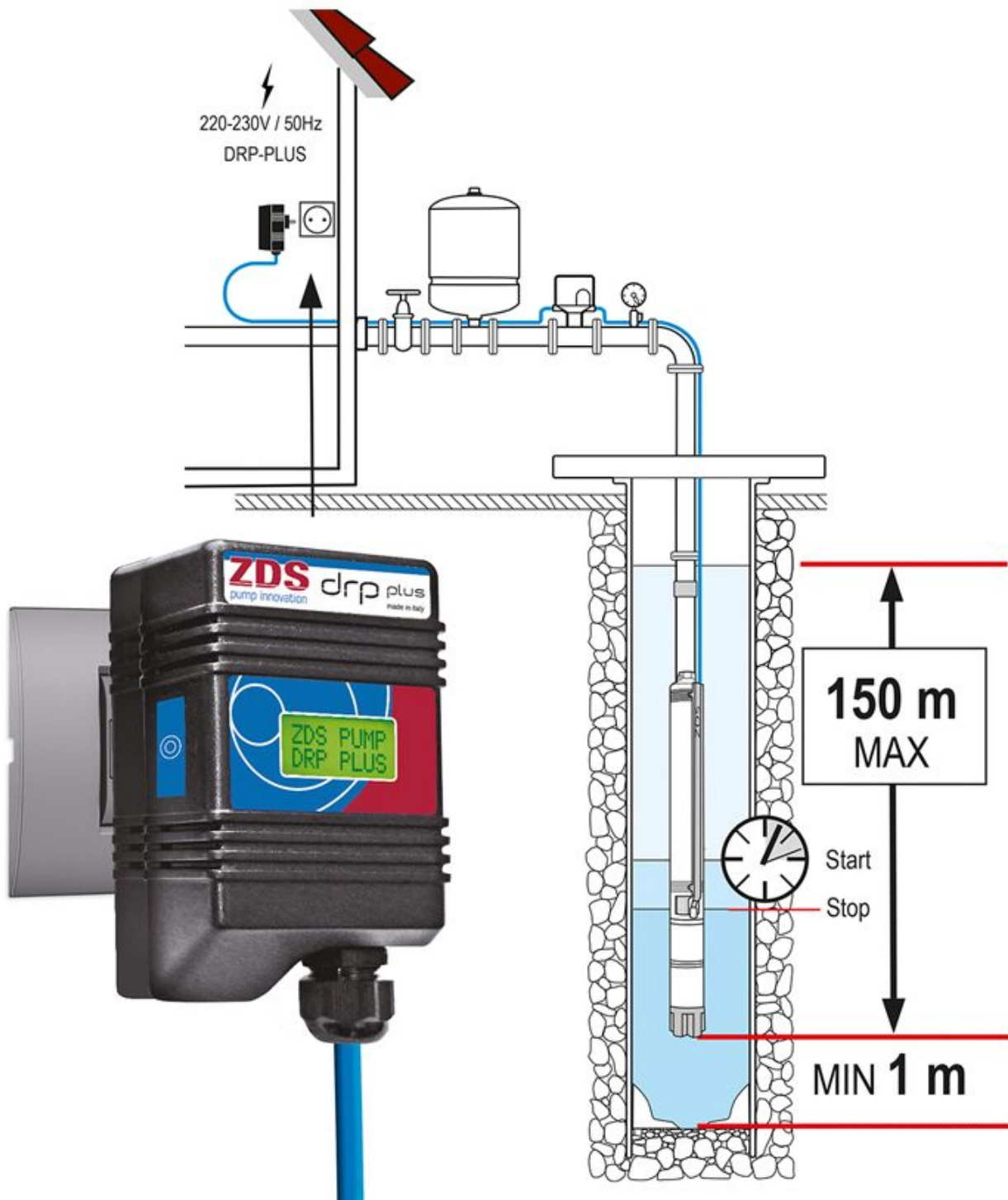
In case the submersible pump is partially or totally blocked, after some restart attempts it enters the stand-by mode.

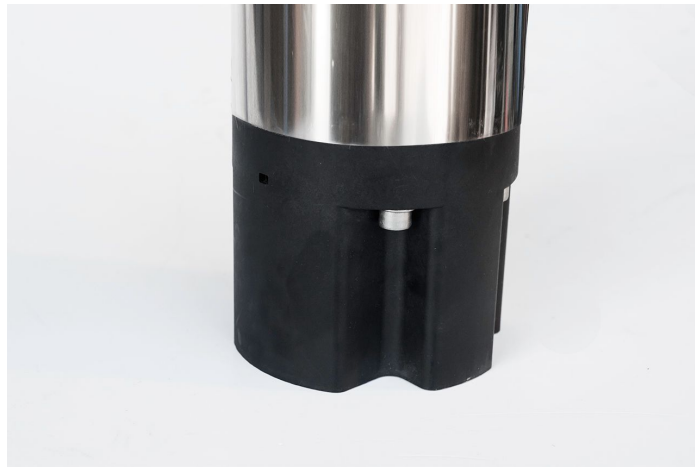
### THERMAL PROTECTION

The special thermal protector integrated in the motor is manually resettable and especially designed to ensure higher reliability and longer life. It stops the motor in case of overheating because of an incorrect installation.

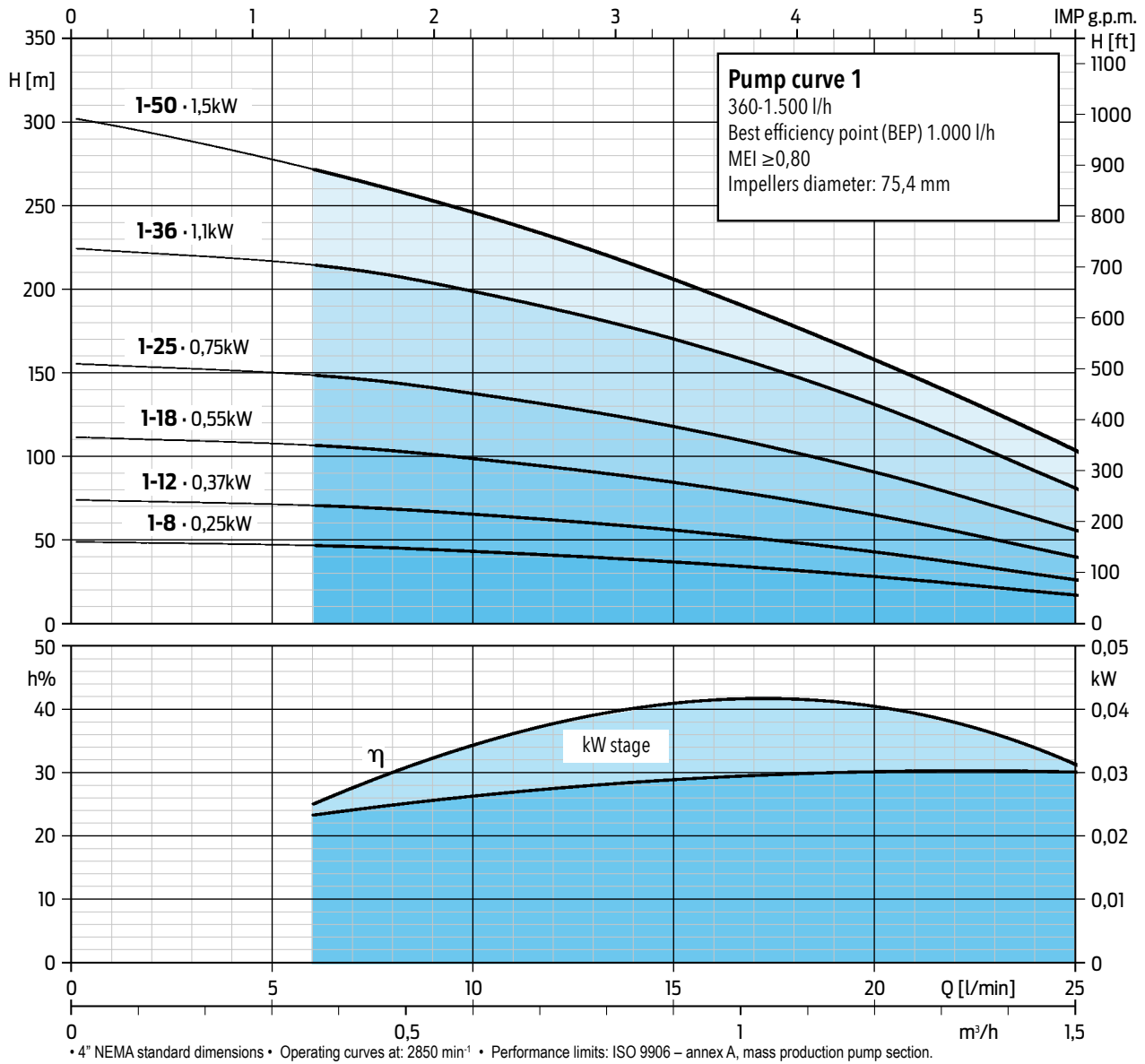
# INFORMATION ON A PROPER INSTALLATION

- If you are using a generator with an internal combustion engine, it is necessary that the generator's power measured in kW (in continuous delivery) is three times the rated power in kW of the submersible pump.
- We recommend to install a proper cooling jacket in installations bigger than 10 cm, to guarantee the correct motor cooling flow.
- The DRP-Plus must NOT be used with a frequency inverter.





# Hydraulic parts series 1



## QS4P.1 Upper head and lower support in **TECHNOPOLIMER**

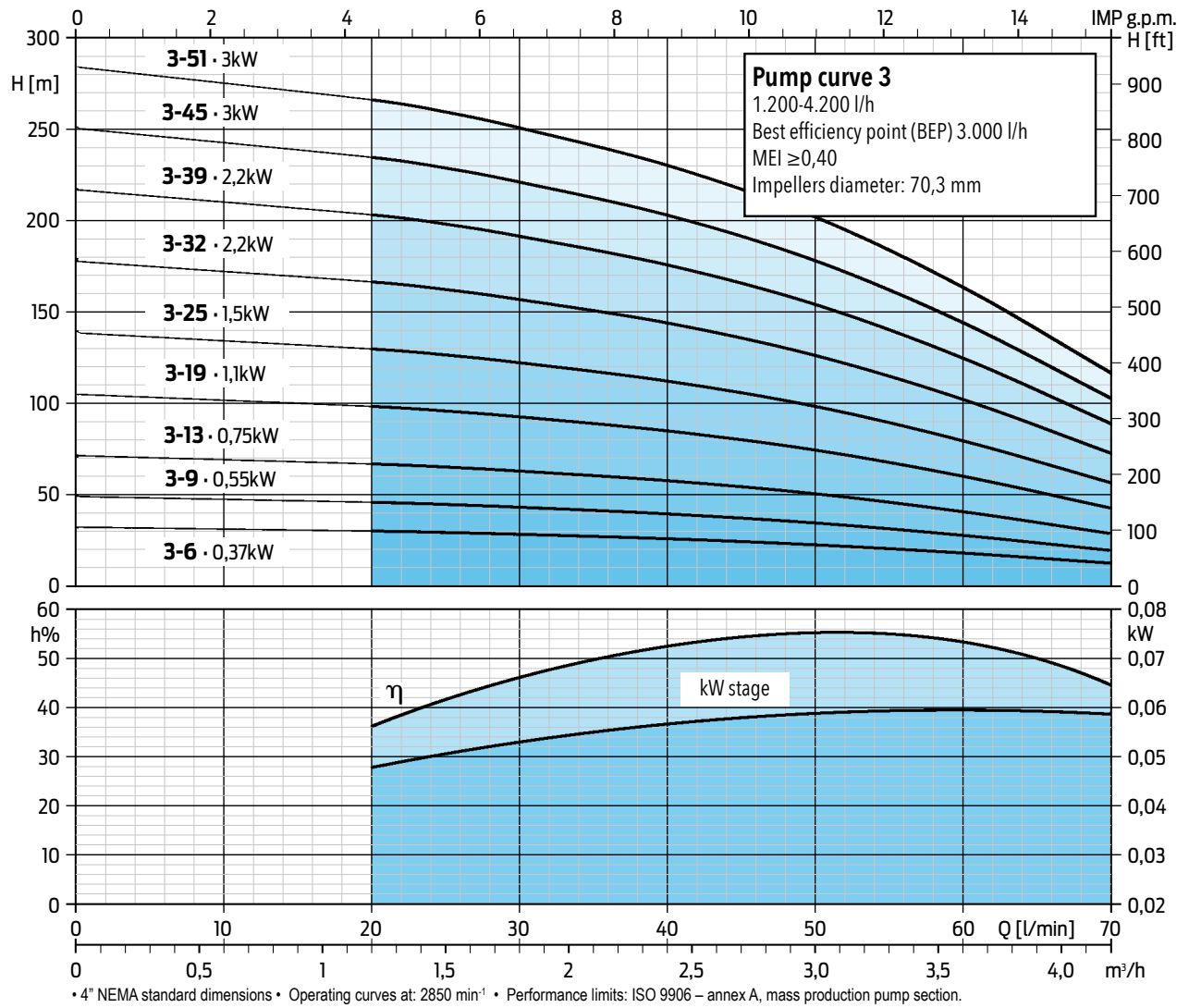
HYDRAULIC TECHNOPOLYMER Pump curve 1	CODE	COUPABLE MOTORS 50Hz n~2850 min <sup>-1</sup>			HYDRAULIC CHARACTERISTICS (n~2850 min <sup>-1</sup> ) Delivery (Q) – Ø Outlet diameter: 1" ¼ G-F					Lenght	Weight	
		Power		Minimum Thrust	m³/h	0	0,36	0,6	1,2			1,5
		kW	HP									
QS4P.1-8	181005008	0,25	0,33	1500	Total head in meters = H= dynamic total pressure	50,2	48	44,4	29,2	18	357	2,5
QS4P.1-12	181005012	0,37	0,5	1500		75,4	72	66,6	43,8	27	437	3
QS4P.1-18	181005018	0,55	0,75	1500		113	108	99,9	65,7	40,5	557	3,9
QS4P.1-25	181005025	0,75	1	1500		157	150	138,8	91,3	56,3	697	4,8

## QS4X.1 Upper head and lower support in **STAINLESS STEEL**

HYDRAULIC INOX Pump curve 1	CODE	COUPABLE MOTORS 50Hz n~2850 min <sup>-1</sup>			HYDRAULIC CHARACTERISTICS (n~2850 min <sup>-1</sup> ) Delivery (Q) – Ø Outlet diameter: 1" ¼ G-F					Lenght	Weight	
		Power		Minimum Thrust	m³/h	0	0,36	0,6	1,2			1,5
		kW	HP									
QS4X.1-8	1810100081	0,25	0,33	1500	Total head in meters = H= dynamic total pressure	50,2	48	44,4	29,2	18	357	3,5
QS4X.1-12	1810100121	0,37	0,5	1500		75,4	72	66,6	43,8	27	437	4
QS4X.1-18	1810100181	0,55	0,75	1500		113	108	99,9	65,7	40,5	557	4,8
QS4X.1-25	1810100251	0,75	1	1500		157	150	138,8	91,3	56,3	697	5,7
QS4X.1-36	1810100361	1,1	1,5	2500		226,1	216	199,8	131,4	81	950	7,6
QS4X.1-50	1810100501	1,5	2	2500		300	280	260	170	106	1230	9,9



## Hydraulic parts series 3



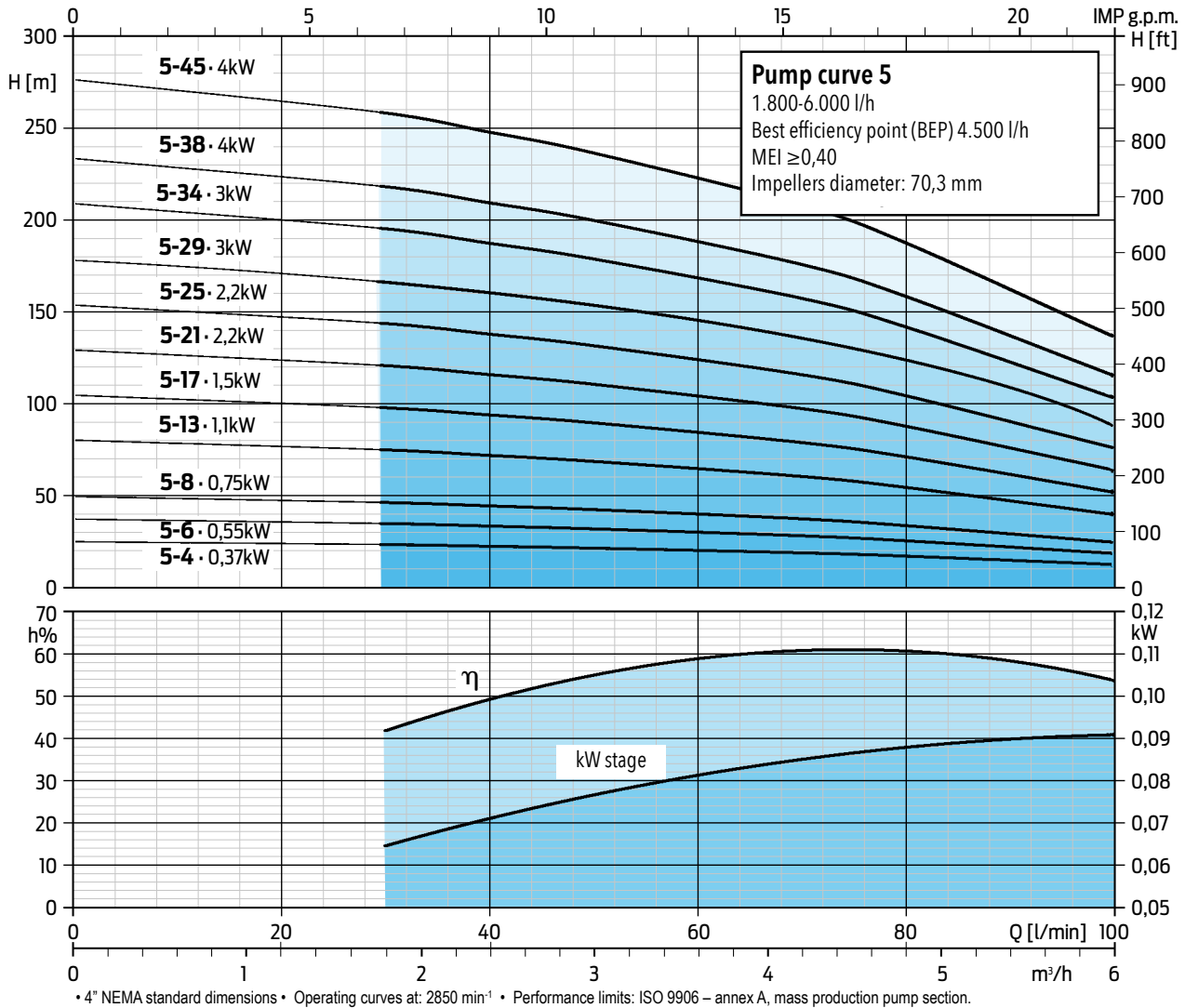
### QS4P.3 Upper head and lower support in **TECHNOPOLIMER**

HYDRAULIC TECHNOPOLYMER Pump curve 3	CODE	COUPABLE MOTORS 50Hz n~2850 min <sup>-1</sup>			HYDRAULIC CHARACTERISTICS (n~2850 min <sup>-1</sup> ) Delivery (Q) – Ø Outlet diameter: 1" ¼ G-F								Lenght mm	Weight kg
		Power		Minimum Thrust F [N]	m³/h l/min	0	1,2 20	1,5 25	1,8 30	2,4 40	3 50	4,2 70		
		kW	HP											
QS4P.3-6	181005206	0,37	0,5	1500	Total head in meters = H= dynamic total pressure	33,3	31,2	30,4	29,4	27	23,7	13,7	392	2,6
QS4P.3-9	181005209	0,55	0,75	1500		50	46,8	45,6	44,1	40,5	35,6	20,6	490	3,2
QS4P.3-13	181005213	0,75	1	1500		72,2	67,6	65,9	63,7	58,5	51,4	29,8	620	4
QS4P.3-19	181005219	1,1	1,5	1500		105,5	98,8	96,3	93,1	85,5	75,1	43,5	815	5,6
QS4P.3-25	181005225	1,5	2	2500		138,8	130	126,8	122,5	112,5	98,8	57,3	1010	6,7

### QS4X.3 Upper head and lower support in **STAINLESS STEEL**

HYDRAULIC INOX Pump curve 3	CODE	COUPABLE MOTORS 50Hz n~2850 min <sup>-1</sup>			HYDRAULIC CHARACTERISTICS (n~2850 min <sup>-1</sup> ) Delivery (Q) – Ø Outlet diameter: 1" ¼ G-F								Lenght mm	Weight kg
		Power		Minimum Thrust F [N]	m³/h l/min	0	1,2 20	1,5 25	1,8 30	2,4 40	3 50	4,2 70		
		kW	HP											
QS4X.3-6	1810102061	0,37	0,5	1500	Total head in meters = H= dynamic total pressure	33,3	31,2	30,4	29,4	27	23,7	13,7	392	3,6
QS4X.3-9	1810102091	0,55	0,75	1500		50	46,8	45,6	44,1	40,5	35,6	20,6	490	4,1
QS4X.3-13	1810102131	0,75	1	1500		72,2	67,6	65,9	63,7	58,5	51,4	29,8	620	5
QS4X.3-19	1810102191	1,1	1,5	1500		105,5	98,8	96,3	93,1	85,5	75,1	43,5	815	6,6
QS4X.3-25	1810102251	1,5	2	2500		138,8	130	126,8	122,5	112,5	98,8	57,3	1010	7,5
QS4X.3-32	1810102321	2,2	3	2500		177,6	166,4	162,2	156,8	144	126,4	73,3	1270	9,6
QS4X.3-39	1810102391	2,2	3	3000		216,5	202,8	197,7	191,1	175,5	154,1	89,3	1497	11
QS4X.3-45	1810102451	3	4	4000		249,8	234	228,2	220,5	202,5	177,8	103,1	1725	12,4
QS4X.3-51	1810102511	3	4	4000		283,1	265,2	258,6	249,9	229,5	201,5	116,8	1920	14,1

# Hydraulic parts series 5



## QS4P.5 Upper head and lower support in TECHNOLIMER

HYDRAULIC TECHNOLIMER Pump curve 5	CODE	COUPABLE MOTORS 50Hz n~2850 min <sup>-1</sup>			HYDRAULIC CHARACTERISTICS (n~2850 min <sup>-1</sup> ) Delivery (Q) – Ø Outlet diameter: 1" ¼ G-F							Lenght mm	Weight kg	
		Power		Minimum Thrust F [N]	m³/h	0	1,8	2,4	3	4,2	4,8			6
		kW	HP											
QS4P.5-4	181005304	0,37	0,5	1500	Total head in meters = H= dynamic total pressure	24,5	22,9	22	21	18,5	16,7	12,1	327	2,2
QS4P.5-6	181005306	0,55	0,75	1500		36,8	34,4	33	31,5	27,7	25	18,2	392	2,6
QS4P.5-8	181005308	0,75	1	1500		49,1	45,8	44	42	37	33,3	24,2	457	3
QS4P.5-13	181005313	1,1	1,5	1500		79,7	74,5	71,5	68,3	60,1	54,2	39,4	620	4,1
QS4P.5-17	181005317	1,5	2,0	2500		104,3	97,4	93,5	89,3	78,5	70,8	51,5	750	5
QS4P.5-21	181005321	2,2	3,0	2500		128,8	120,3	115,5	110,3	97	87,5	63,3	880	5,8
QS4P.5-25	181005325	2,2	3,0	2500		153,3	143,3	137,5	131,3	115,5	104,2	75,8	1010	6,7

## QS4X.5 Upper head and lower support in STAINLESS STEEL

HYDRAULIC INOX Pump curve 5	CODE	COUPABLE MOTORS 50Hz n~2850 min <sup>-1</sup>			HYDRAULIC CHARACTERISTICS (n~2850 min <sup>-1</sup> ) Delivery (Q) – Ø Outlet diameter: 1" ¼ G-F							Lenght mm	Weight kg	
		Power		Minimum Thrust F [N]	m³/h	0	1,8	2,4	3	4,2	4,8			6
		kW	HP											
QS4X.5-4	1810103041	0,37	0,5	1500	Total head in meters = H= dynamic total pressure	24,5	22,9	22	21	18,5	16,7	12,1	327	3,2
QS4X.5-6	1810103061	0,55	0,75	1500		36,8	34,4	33	31,5	27,7	25	18,2	392	3,6
QS4X.5-8	1810103081	0,75	1	1500		49,1	45,8	44	42	37	33,3	24,2	457	4
QS4X.5-13	1810103131	1,1	1,5	1500		79,7	74,5	71,5	68,3	60,1	54,2	39,4	620	5,1
QS4X.5-17	1810103171	1,5	2	2500		104,3	97,4	93,5	89,3	78,5	70,8	51,5	750	6
QS4X.5-21	1810103211	2,2	3	2500		128,8	120,3	115,5	110,3	97	87,5	63,6	880	6,8
QS4X.5-25	1810103251	2,2	3	2500		153,3	143,3	137,5	131,3	115,5	104,2	75,8	1010	7,6
QS4X.5-29	1810103291	3	4	4000		177,9	166,2	159,5	152,3	134	120,8	87,9	1172	8,7
QS4X.5-34	1810103341	3	4	4000		208,5	194,8	187	178,5	157,1	141,7	103	1335	9,8
QS4X.5-38	1810103381	4	5,5	4000		233,1	217,1	209	199,5	175,6	158,3	115,1	1497	11,2
QS4X.5-45	1810103451	4	5,5	4000		276	257,9	247,5	236,3	207,9	187,5	136,4	1725	13



Model	Power		P.C.*	c.c.** In (A)	Hydraulic performance (n~2.850 min <sup>-1</sup> )										Cable 1,5 m		Cable 15 m		Cable 30 m		Cable 45 m					
	kW	HP			m <sup>3</sup> /h	0	0	0,6	1,5	2,4	4,2	6		Code	Code	Code	Code	Code	Code							
			l/min	0	6	10	25	40	70	100																
PUMP CURVE 1 ZDJet.P.1-8 ZDJet.P.1-8.DRP ZDJet.P.1-8.DRP-Plus ZDJet.P.1-12 ZDJet.P.1-12.DRP ZDJet.P.1-12.DRP-Plus ZDJet.P.1-18 ZDJet.P.1-18.DRP ZDJet.P.1-18.DRP-Plus ZDJet.P.1-25 ZDJet.P.1-25.DRP ZDJet.P.1-25.DRP-Plus	0,25	0,33	0,55	2,7	Total head in meters = H = dynamic total pressure	50,2	48	44,4	18							196025108	196025108L	196025108L1	Not available							
																196025108S	196025108S1	196025108S2	Not available							
																196025108P	196025108P1	196025108P2	Not available							
	0,37	0,5	0,69	3,3		75,4	72	66,6	27																	
																							196025112S	196025112S1	196025112S2	196025112S3
																							196025112P	196025112P1	196025112P2	196025112P3
	0,55	0,75	0,87	4,3		113	108	99,9	40,5																	
																							196025118S	196025118S1	196025118S2	196025118S3
																							196025118P	196025118P1	196025118P2	196025118P3
0,75	1	1,23	5,7	157	150	138,8	56,3																			
																					196025125S	196025125S1	196025125S2	196025125S3		
																					196025125P	196025125P1	196025125P2	196025125P3		
PUMP CURVE 2 ZDJet.P.2-5 ZDJet.P.2-5.DRP ZDJet.P.2-5.DRP-Plus ZDJet.P.2-8 ZDJet.P.2-8.DRP ZDJet.P.2-8.DRP-Plus ZDJet.P.2-12 ZDJet.P.2-12.DRP ZDJet.P.2-12.DRP-Plus ZDJet.P.2-16 ZDJet.P.2-16.DRP ZDJet.P.2-16.DRP-Plus ZDJet.P.2-24 ZDJet.P.2-24.DRP ZDJet.P.2-24.DRP-Plus	0,25	0,33	0,55	2,7	Total head in meters = H = dynamic total pressure	32		31,2	26,2	17							196025205	196025205L	196025205L1	Not available						
																	196025205S	196025205S1	196025205S2	Not available						
																	196025205P	196025205P1	196025205P2	Not available						
	0,37	0,5	0,73	3,4		51,2	49,9	41,9	27,2																	
																							196025208S	196025208S1	196025208S2	196025208S3
																							196025208P	196025208P1	196025208P2	196025208P3
	0,55	0,75	0,97	4,4		77	74,9	62,9	40,8																	
																							196025212S	196025212S1	196025212S2	196025212S3
																							196025212P	196025212P1	196025212P2	196025212P3
0,75	1	1,27	5,8	102	99,8	83,8	54,4																			
																					196025216S	196025216S1	196025216S2	196025216S3		
																					196025216P	196025216P1	196025216P2	196025216P3		
1,1	1,5	1,7	8,6	153,6	149,8	125,8	81,6																			
																					196025224S	196025224S1	196025224S2	196025224S3		
																					196025224P	196025224P1	196025224P2	196025224P3		
PUMP CURVE 3 ZDJet.P.3-6 ZDJet.P.3-6.DRP ZDJet.P.3-6.DRP-Plus ZDJet.P.3-9 ZDJet.P.3-9.DRP ZDJet.P.3-9.DRP-Plus ZDJet.P.3-13 ZDJet.P.3-13.DRP ZDJet.P.3-13.DRP-Plus ZDJet.P.3-19 ZDJet.P.3-19.DRP ZDJet.P.3-19.DRP-Plus ZDJet.P.3-25 ZDJet.P.3-25.DRP ZDJet.P.3-25.DRP-Plus	0,37	0,5	0,7	3,2	Total head in meters = H = dynamic total pressure	33,3		30,4	27	13,7							196025306	196025306L	196025306L1	Not available						
																	196025306S	196025306S1	196025306S2	Not available						
																	196025306P	196025306P1	196025306P2	Not available						
	0,55	0,75	0,93	4		50	45,6	40,5	20,6																	
																							196025309S	196025309S1	196025309S2	196025309S3
																							196025309P	196025309P1	196025309P2	196025309P3
	0,75	1	1,24	5,8		72,2	65,9	58,5	29,8																	
																							196025313S	196025313S1	196025313S2	196025313S3
																							196025313P	196025313P1	196025313P2	196025313P3
1,1	1,5	1,66	8,1	105,5	96	85,5	43,50																			
																					196025319S	196025319S1	196025319S2	196025319S3		
																					196025319P	196025319P1	196025319P2	196025319P3		
1,5	2	2,34	10,6	138,8	126,8	112,5	57,3																			
																					196025325S	196025325S1	196025325S2	Not available		
																					196025325P	196025325P1	196025325P2	Not available		
PUMP CURVE 5 ZDJet.P.5-4 ZDJet.P.5-4.DRP ZDJet.P.5-4.DRP-Plus ZDJet.P.5-6 ZDJet.P.5-6.DRP ZDJet.P.5-6.DRP-Plus ZDJet.P.5-8 ZDJet.P.5-8.DRP ZDJet.P.5-8.DRP-Plus ZDJet.P.5-13 ZDJet.P.5-13.DRP ZDJet.P.5-13.DRP-Plus ZDJet.P.5-17 ZDJet.P.5-17.DRP ZDJet.P.5-17.DRP-Plus	0,37	0,5	0,72	3,3	Total head in meters = H = dynamic total pressure	24,5			22	18,5	12,1						196025504	196025504L1	196025504L2	Not available						
																	196025504S	196025504S1	196025504S2	Not available						
																	196025504P	196025504P1	196025504P2	Not available						
	0,55	0,75	0,95	4,2		37	33	27,7	18,2																	
																							196025506S	196025506S1	196025506S2	Not available
																							196025506P	196025506P1	196025506P2	Not available
	0,75	1	1,23	5,7		49,1	44	37	24,2																	
																							196025508S	196025508S1	196025508S2	196025508S3
																							196025508P	196025508P1	196025508P2	196025508P3
1,1	1,5	1,7	8,8	79,7	72	60,1	39,4																			
																					196025513S	196025513S1	196025513S2	196025513S3		
																					196025513P	196025513P1	196025513P2	196025513P3		
1,5	2	2,35	10,8	104,3	93,5	78,5	51,5																			
																					196025517S	196025517S1	196025517S2	Not available		
																					196025517P	196025517P1	196025517P2	Not available		

\*Power consumption \*\*Current consumption

**По вопросам продаж и поддержки обращайтесь:**

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Брянск (4832)59-03-52	Краснодар (861)203-40-90	Пенза (8412)22-31-16	Томск (3822)98-41-53
Владивосток (423)249-28-31	Красноярск (391)204-63-61	Пермь (342)205-81-47	Тула (4872)74-02-29
Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	