

## TPV Series

Vertical multistage jockey pumps  
50 Hz

PRODUCT CATALOGUE



# VERTICAL MULTISTAGE PUMPS

## Energy Saving & Low-Noise



### Product Description

TPV is a low-noise, energy-saving multistage pump. It is built to ensure durability and easy operation, making it a reliable choice for many applications. Featuring a high-efficiency motor with IP55 class F protection, a techno-polymer impeller, and cast iron G20 thread suction and discharge ports, this pump is built to last. Plus, it includes quality NSK bearing and a wear-resistant mechanical seal. The compact and proportional design makes it a great option.

### Applications

TPV can be used for household, irrigation, car wash, fire protection systems, air conditioning and pressure boosting in water networks.

### Operating Data

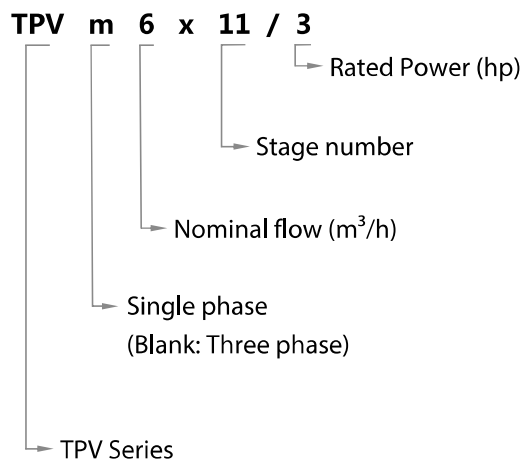
- Flow: 0 - 48 m<sup>3</sup>/h
- Head: 0 - 176 m
- DN: 25 - 65 mm
- Medium: clean water or non-aggressive liquid (free of solids or fiber)
- Medium temperature: -10 ~ 120 °C
- Max. ambient temperature: -10 ~ 50 °C
- Max. working pressure: 25 bar

### Motor

- Insulation Class: F
- Protection Class: IP55
- Continuous Service: S1
- Power: 1.1 - 11 kW
- Frequency: 50 Hz
- Voltage: 220/380/400/440 V
- Speed: 2900 rpm



### Model Description



# PRODUCT OVERVIEW

## Reliable & Durable

### Technical Data

50 Hz n=2900 1/min

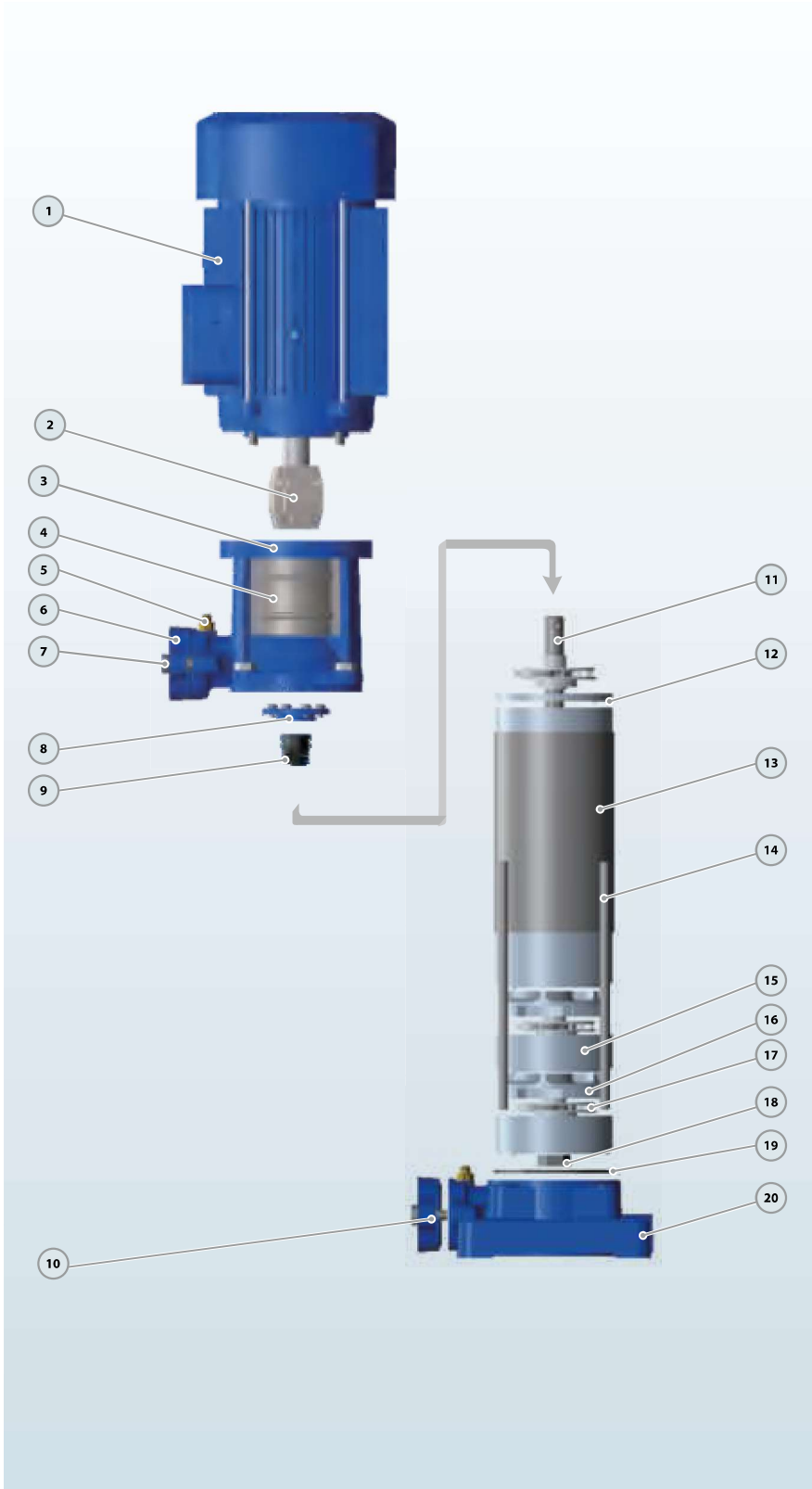
MODEL	DN mm	Power kw   hp		Q=DELIVERY																								
				US	5	11	13	16	19	21	24	26	29	32	37	42	48	53	58	63	69	74	79					
				gpm	20	40	50	60	70	80	90	100	110	120	140	160	180	200	220	240	260	280	300					
				0	1.2	2.4	3	3.6	4.2	4.8	5.4	6	6.6	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18					
				l/min	H=Head (m)																							
TPV 4×7/1.5	25x25	1.1	1.5	60.7	56.8	52.1	49	45.9	42.8	38.9	35	30.3	25.7	20.2	-	-	-	-	-	-	-	-	-	-	-	-		
TPV 4×9/2	25x25	1.5	2	78	73	67	63	59	55	50	45	39	33	26	-	-	-	-	-	-	-	-	-	-	-	-		
TPV 4×13/3	25x25	2.2	3	113	105	96.8	91	85.2	79.4	72.2	65	56.3	47.7	37.5	-	-	-	-	-	-	-	-	-	-	-	-		
TPV 4×16/4	25x25	3	4	139	130	119	112	105	97.8	88.9	80	69.3	58.7	46.2	-	-	-	-	-	-	-	-	-	-	-	-		
TPV 6×5/1.5	32x32	1.1	1.5	44.4	-	-	-	135.5	33.3	30.9	28.4	26.1	23.4	20.2	14.3	6.8	-	-	-	-	-	-	-	-	-	-		
TPV 6×8/2	32x32	1.5	2	71.1	-	-	-	56.7	53.2	49.5	45.5	41.8	37.5	32.4	22.9	10.9	-	-	-	-	-	-	-	-	-	-		
TPV 6×11/3	32x32	2.2	3	97.7	-	-	-	78	73.2	68	62.5	57.5	51.5	44.5	31.5	15	-	-	-	-	-	-	-	-	-	-		
TPV 6×15/4	32x32	3	4	133	-	-	-	106	99.8	92.7	85.2	78.4	70.2	60.7	43	20.5	-	-	-	-	-	-	-	-	-	-		
TPV 8×4/1.5	40x40	1.1	1.5	36.8	-	-	-	-	-	30	28.4	27.2	26	24.4	21.2	17.6	13.2	9.2	4.8	-	-	-	-	-	-	-		
TPV 8×7/2	40x40	1.5	2	64.4	-	-	-	-	-	52.5	49.7	47.6	45.5	42.7	37.1	30.8	23.1	16.1	8.4	-	-	-	-	-	-	-		
TPV 8×9/3	40x40	2.2	3	82.8	-	-	-	-	-	67.5	63.9	61.2	58.5	54.9	47.7	39.6	29.7	20.7	10.8	-	-	-	-	-	-	-		
TPV 8×12/4	40x40	3	4	110	-	-	-	-	-	90	85.2	81.6	78	73.2	63.6	52.8	39.6	27.6	14.4	-	-	-	-	-	-	-		
TPV 8×16/5.5	40x40	4	5.5	147	-	-	-	-	-	120	114	109	104	97.6	84.8	70.4	52.8	36.8	19.2	-	-	-	-	-	-	-		
TPV 12×3/1.5	50x50	1.1	1.5	31	-	-	-	-	-	-	-	25.4	24.7	24	22.4	20.6	18.4	16.2	13.3	10.9	8.3	5.1	2	-	-	-		
TPV 12×5/2	50x50	1.5	2	51.7	-	-	-	-	-	-	-	42.4	41.2	40	37.3	34.3	30.7	27	22.2	18.2	13.8	8.5	3.3	-	-	-		
TPV 12×7/3	50x50	2.2	3	72.3	-	-	-	-	-	-	-	59.3	57.6	56	52.3	48.1	43	37.8	31	25.5	19.4	11.9	4.7	-	-	-		
TPV 12×9/4	50x50	3	4	93	-	-	-	-	-	-	-	76.2	74.1	72	67.2	61.8	55.2	48.6	39.9	32.8	24.9	15.4	6	-	-	-		
TPV 12×12/5.5	50x50	4	5.5	122	-	-	-	-	-	-	-	102	98.8	96	89.6	82.4	73.6	64.8	53.2	43.8	33.2	20.5	8	-	-	-		
TPV 12×17/7.5	50x50	5.5	7.5	176	-	-	-	-	-	-	-	144	140	136	127	117	104	91.8	75.4	62	47	29	11.3	-	-	-		

MODEL	DN mm	Power kw   hp		Q=DELIVERY									
				US	26	53	79	106	132	159	185	211	
				gpm	100	200	300	400	500	600	700	800	
				0	6	12	18	24	30	36	42	48	
				l/min	H=Head (m)								
TPV 30×7/10	65x65	7.5	10	104	100	93	83	74	64	49	31	4	
TPV 30×9/12	65x65	9.2	12.5	133	128	119	108	96	82	63	40	5	
TPV 30×11/15	65x65	11	15	163	156	145	132	116	99	77	48	6	

### Material

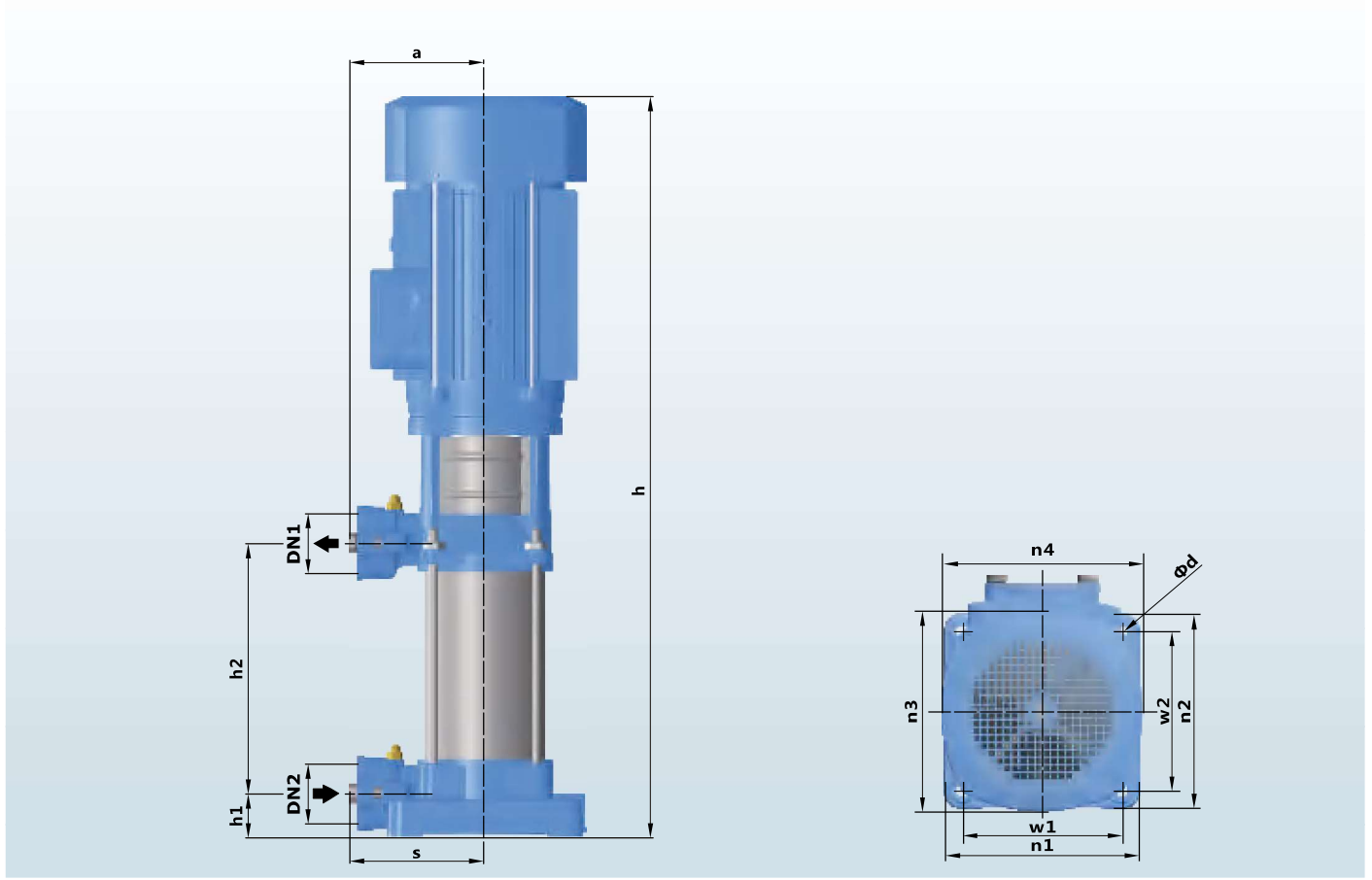
- Casing: Grey cast iron
- Impeller: Plastic
- Shaft: Stainless Steel 304
- Shaft Seal: Mechanical seal

# MATERIAL DESCRIPTION



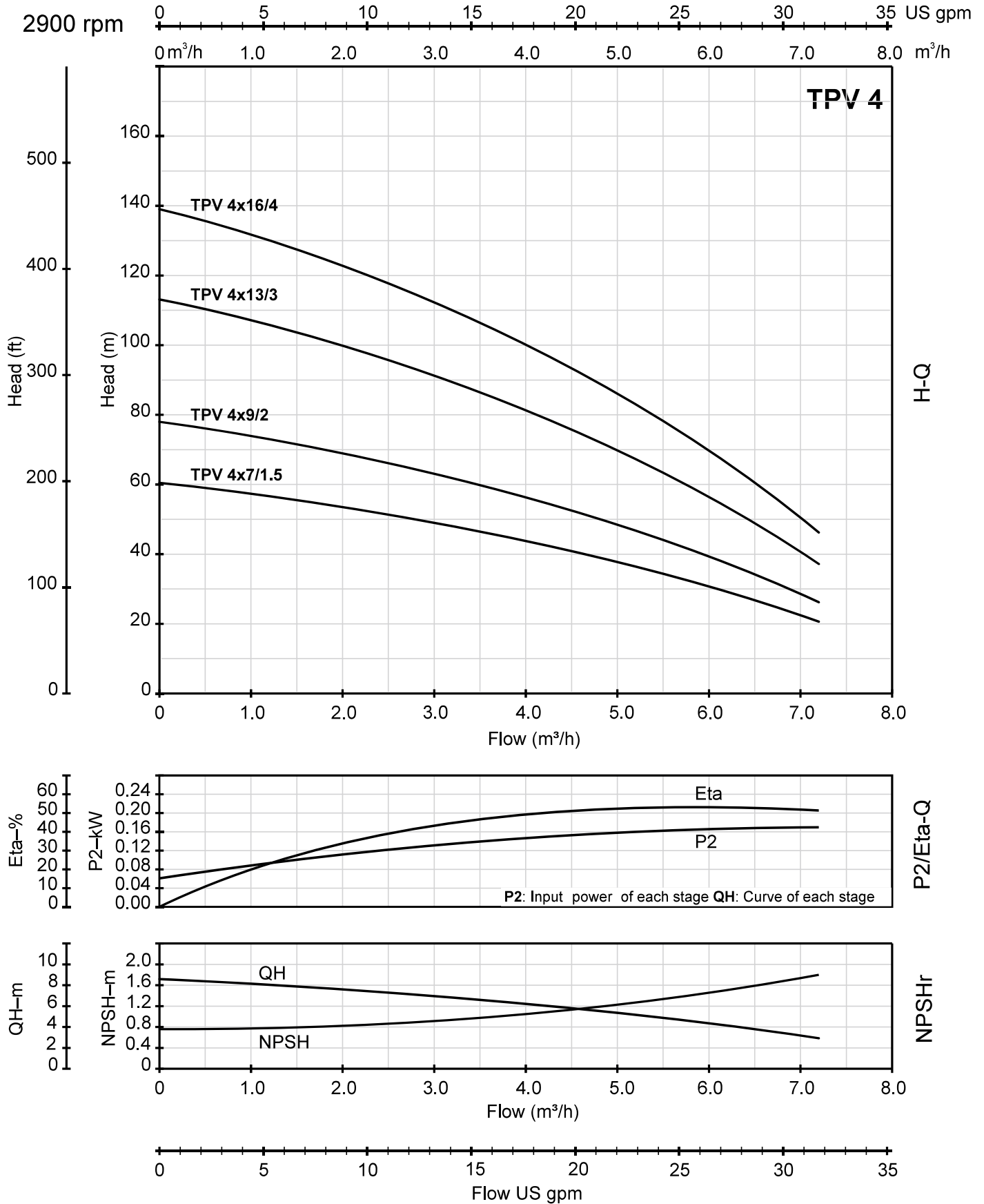
No.	Description	Material
1	Motor	IP55 / Class F
2	Coupling	Iron
3	Discharge Body	Cast iron
4	Cover	SS304
5	Release Valve	Brass
6	Discharge	Cast iron
7	Bolt	Steel
8	Seal Cover	Cast iron
9	Mechanical Seal	SiC/Carbon/SS304
10	Suction	Cast iron
11	Pump Shaft	SS304
12	Diffuser Top Cover	Techno-polymer
13	Pump Cover	SS304
14	Through Bolt	Steel
15	Diffuser Cover	Techno-polymer with SS304 ring
16	Diffuser	Techno-polymer with SS304 ring
17	Impeller	Techno-polymer
18	Impeller Nut	Galvanized Steel
19	O-ring	Rubber
20	Suction Body	Cast iron

# DIMENSIONS & WEIGHT



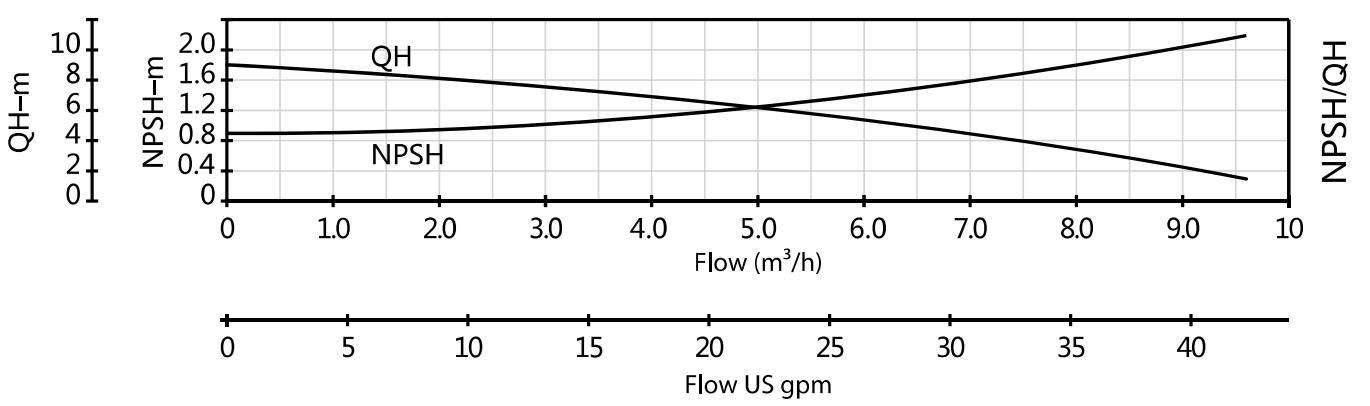
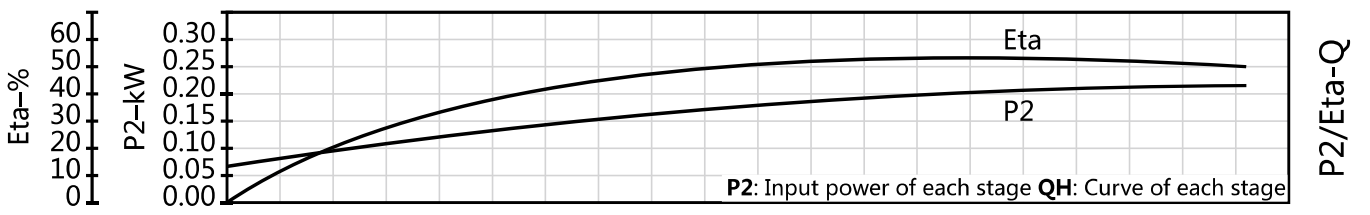
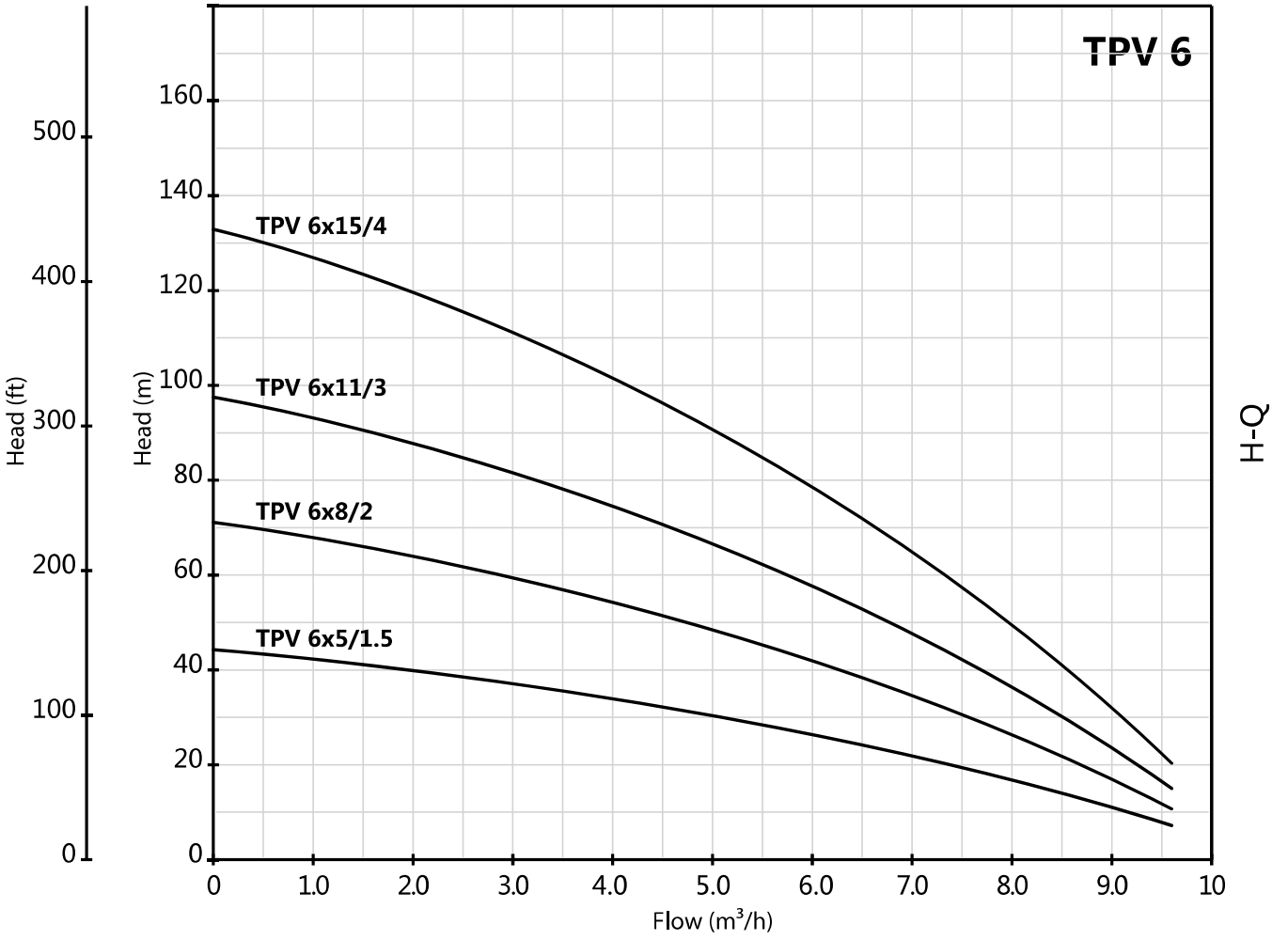
MODEL	DIMENSIONS [mm]															kg	
	DN1	DN2	N	a	s	h	h1	h2	w1	w2	n1	n2	n3	n4	d	1~	3~
TPV 4×7/1.5	25/32	25/32	7	141	141	720	45.5	261.5	165	165	202	202	175	175	12	28.0	27.0
TPV 4×9/2	25/32	25/32	9	141	141	790	45.5	331.5	165	165	202	202	175	175	12	33.0	32.0
TPV 4×13/3	25/32	25/32	13	141	141	930	45.5	471.5	165	165	202	202	175	175	12	38.0	37.0
TPV 4×16/4	25/32	25/32	16	141	141	1082	45.5	576.5	165	165	202	202	195	195	12	48.0	47.0
TPV 6×5/1.5	25/32	25/32	5	141	141	650	45.5	191.5	165	165	202	202	175	175	12	26.0	25.0
TPV 6×8/2	25/32	25/32	8	141	141	755	45.5	296.5	165	165	202	202	175	175	12	31.0	30.0
TPV 6×11/3	25/32	25/32	11	141	141	860	45.5	401.5	165	165	202	202	175	175	12	36.0	35.0
TPV 6×15/4	25/32	25/32	15	141	141	1047	45.5	541.5	165	165	202	202	195	195	12	46.0	45.0
TPV 8×4/1.5	40/50	40/50	4	141	141	615	45.5	156.5	165	165	202	202	175	175	12	26.0	25.0
TPV 8×7/2	40/50	40/50	7	141	141	720	45.5	261.5	165	165	202	202	175	175	12	31.0	30.0
TPV 8×9/3	40/50	40/50	9	141	141	790	45.5	331.5	165	165	202	202	175	175	12	36.0	35.0
TPV 8×12/4	40/50	40/50	12	141	141	942	45.5	436.5	165	165	202	202	195	195	12	46.0	45.0
TPV 8×16/5.5	40/50	40/50	16	141	141	1082	45.5	576.5	165	165	202	202	195	195	12	-	50.0
TPV 12×3/1.5	40/50	40/50	3	141	141	580	45.5	121.5	165	165	202	202	175	175	12	25.0	24.0
TPV 12×5/2	40/50	40/50	5	141	141	650	45.5	191.5	165	165	202	202	175	175	12	30.0	29.0
TPV 12×7/3	40/50	40/50	7	141	141	720	45.5	261.5	165	165	202	202	175	175	12	35.0	34.0
TPV 12×9/4	40/50	40/50	9	141	141	837	45.5	331.5	165	165	202	202	195	195	12	45.0	44.0
TPV 12×12/5.5	40/50	40/50	12	141	141	942	45.5	436.5	165	165	202	202	195	195	12	-	50.0
TPV 12×17/7.5	40/50	40/50	17	141	141	1167	45.5	611.5	165	165	202	202	204	204	12	-	60.0
TPV 30×7/10	50/65	50/65	7	170	170	1046	62	416	187	187	230	230	260	260	12	-	86.0
TPV 30×9/12	50/65	50/65	9	170	170	1153	62	523	187	187	230	230	260	260	12	-	92.0
TPV 30×11/15	50/65	50/65	11	170	170	1260	62	630	187	187	230	230	260	260	12	-	100

# PERFORMANCE CURVES

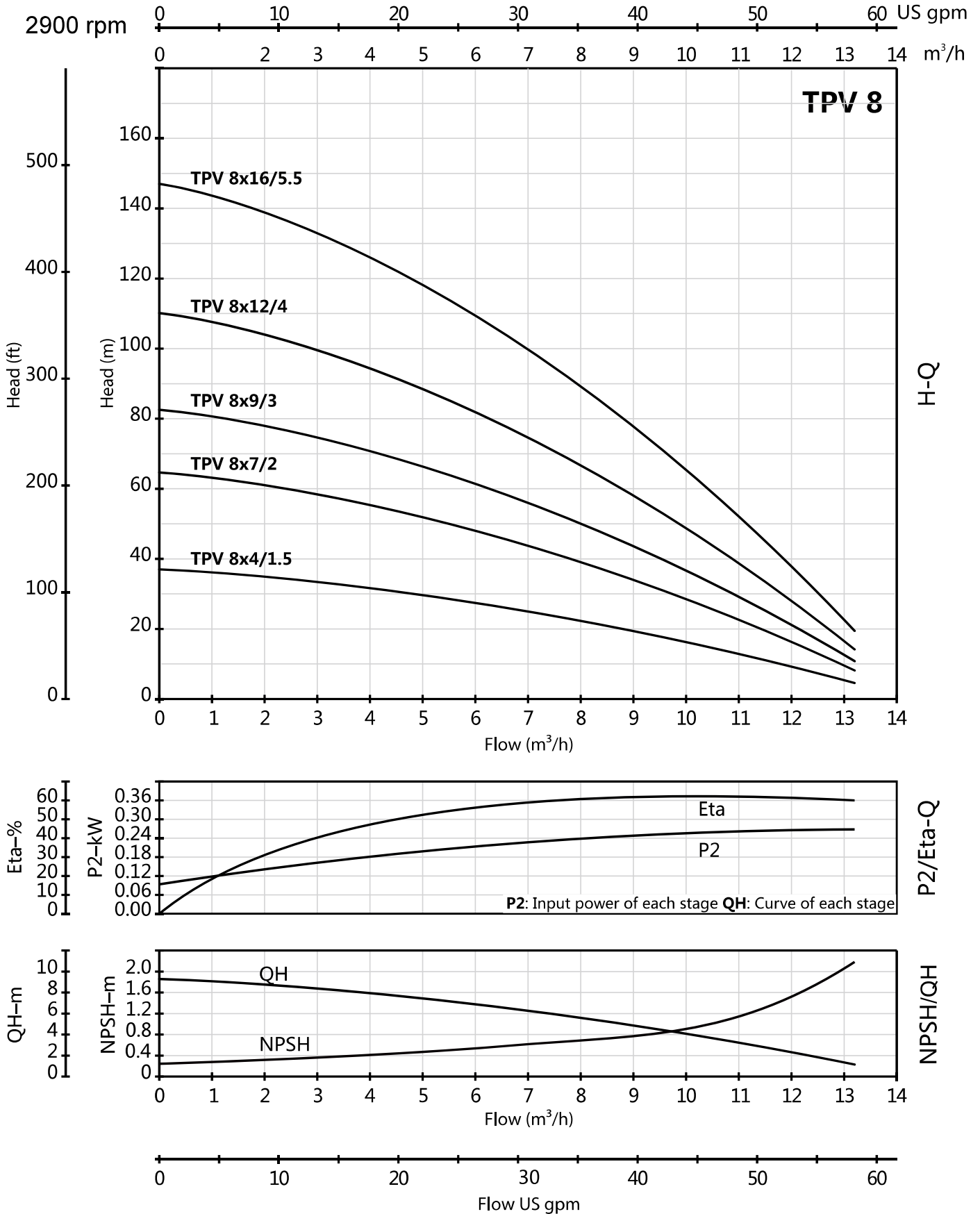


# PERFORMANCE CURVES

2900 rpm  
 0 5 10 15 20 25 30 35 40 US gpm  
 0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10 m<sup>3</sup>/h



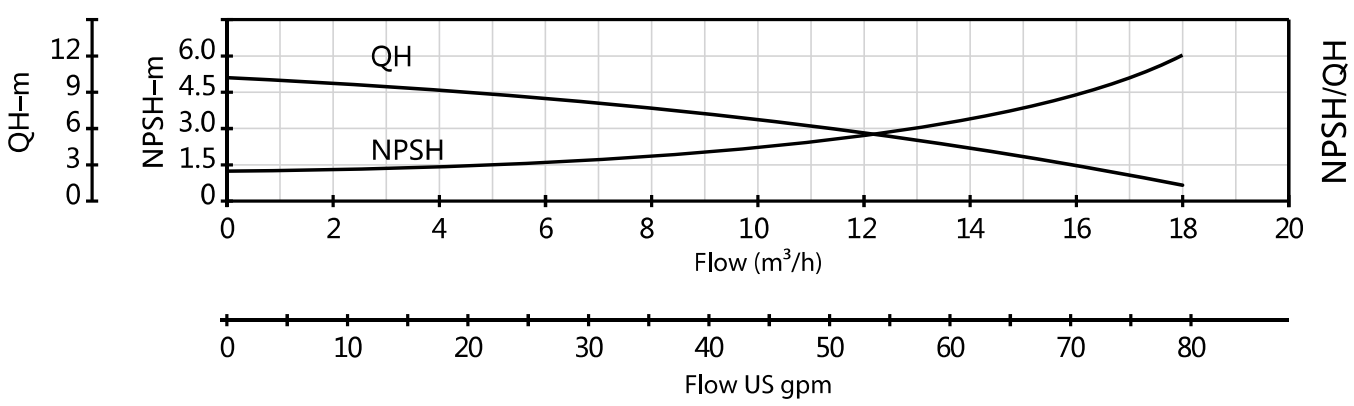
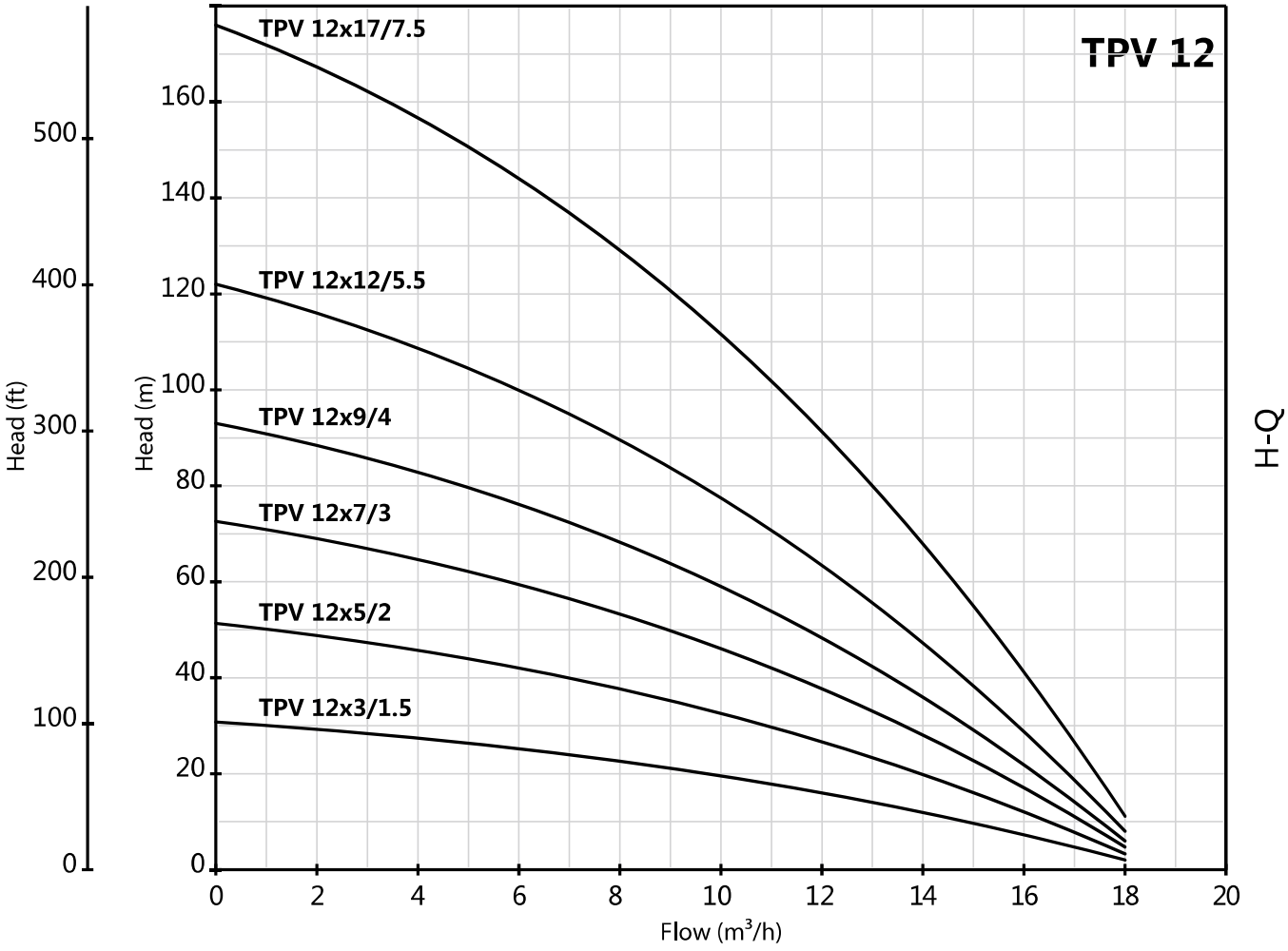
# PERFORMANCE CURVES



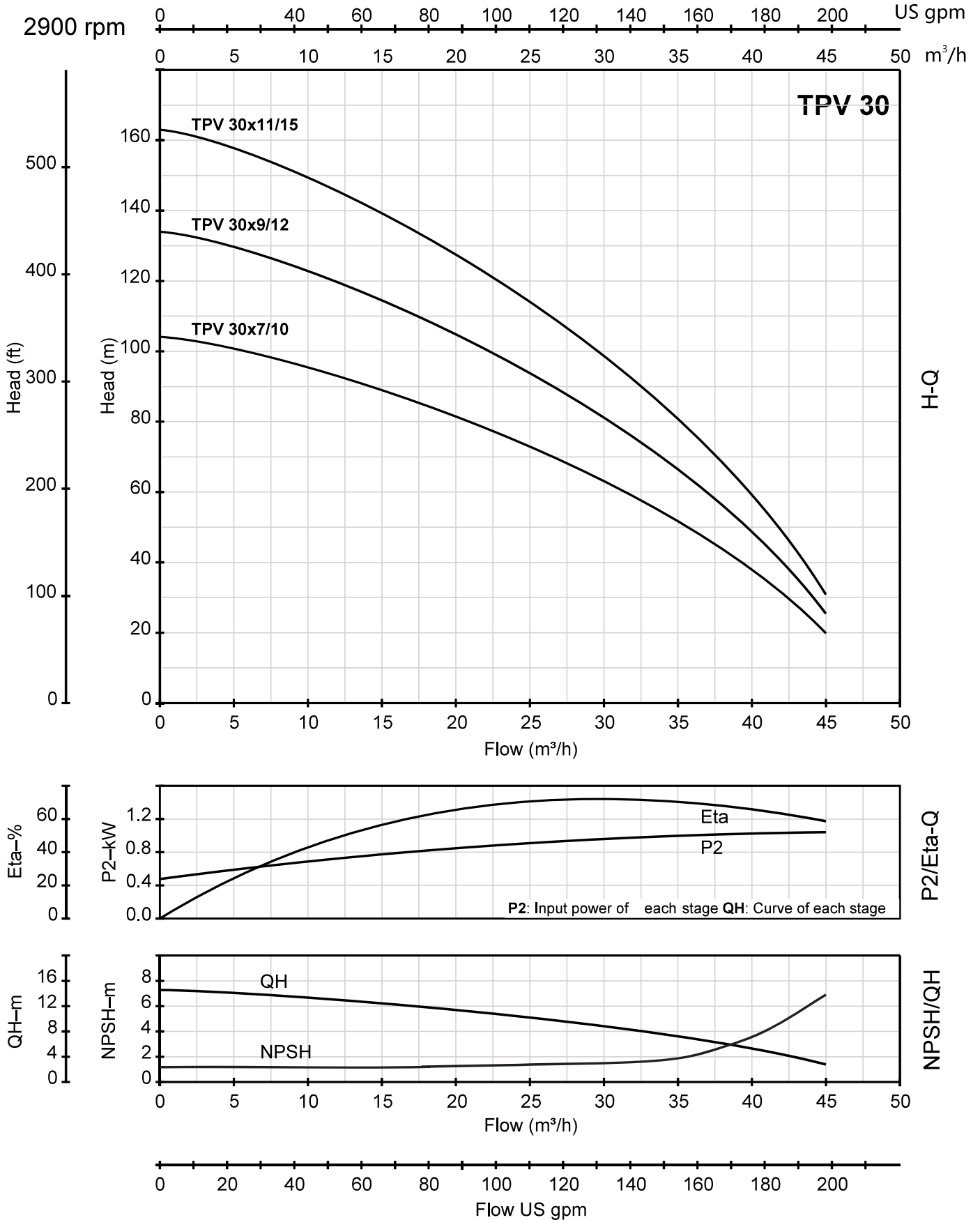


# PERFORMANCE CURVES

2900 rpm  
 0 10 20 30 40 50 60 70 80 US gpm  
 0 2 4 6 8 10 12 14 16 18 20 m<sup>3</sup>/h



# PERFORMANCE CURVES





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