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The advertisement for Hanthing Water pumps features a blue and white color scheme. On the left is the Hanthing logo, a stylized blue 'S' shape above the word 'Hanthing' in blue. To the right of the logo is a collage of images showing various pump models and components. A large yellow diagonal banner across the center reads 'Water pump'. To the right of the banner, four blue boxes list pump types: 'Inline', 'Split case', 'Multi stage', and 'End suction'. At the bottom, the website 'www.hanthing.com' is displayed in white on a blue background.

Hanthing

Water pump

Inline
Split case
Multi stage
End suction

www.hanthing.com



The advertisement for Exthin Air Compressors features a black and yellow color scheme. On the left is the Exthin logo, a stylized yellow 'X' shape above the word 'Exthin' in yellow. To the right of the logo is a collage of images showing various compressor models and components. A large yellow diagonal banner across the center reads 'Air Compressor'. To the right of the banner, three black boxes list compressor types: 'Portable', 'Screw', and 'Piston'. At the bottom right, there is a detailed image of a large industrial air compressor unit. At the top, the website 'www.exthin.com' is displayed in white on a black background.

www.exthin.com

Exthin

Air Compressor

Portable
Screw
Piston

ShangHai HanThing pump Co.,ltd
Website: www.hanthing.com
Address: NO.566, Tongli road, songjiang district, Shanghai, China
Mobile: +86-021-56550238
Email: sales@hanthing.com



国家产品质量免检 | 中国著名品牌

SPP/SPV系列化工混流泵

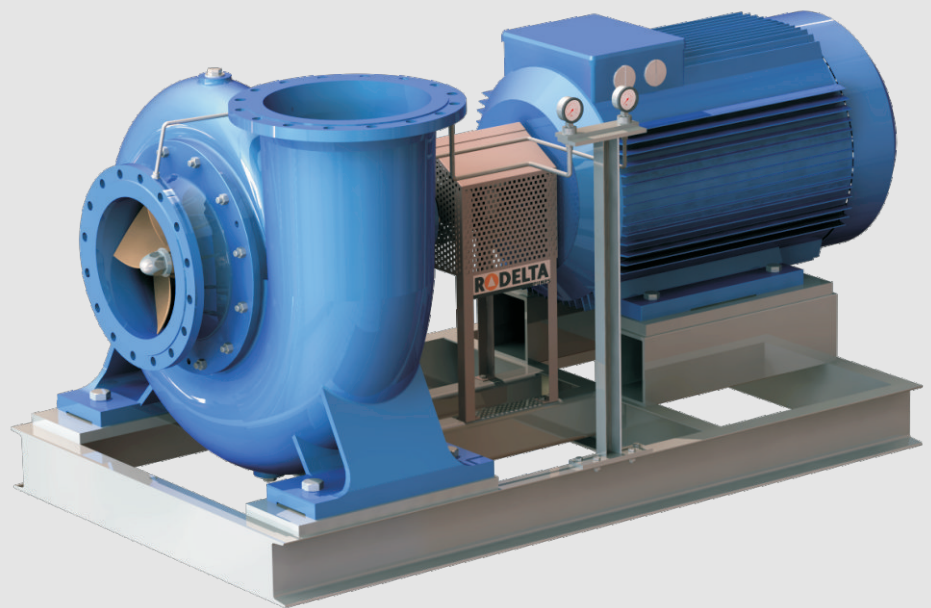
SPP/SPV Series Mixed Flow Chemical Pump





- ▶ The power of proven technology

SPP
SPV



Horizontal mixed flow,
Single-stage end-suction pump

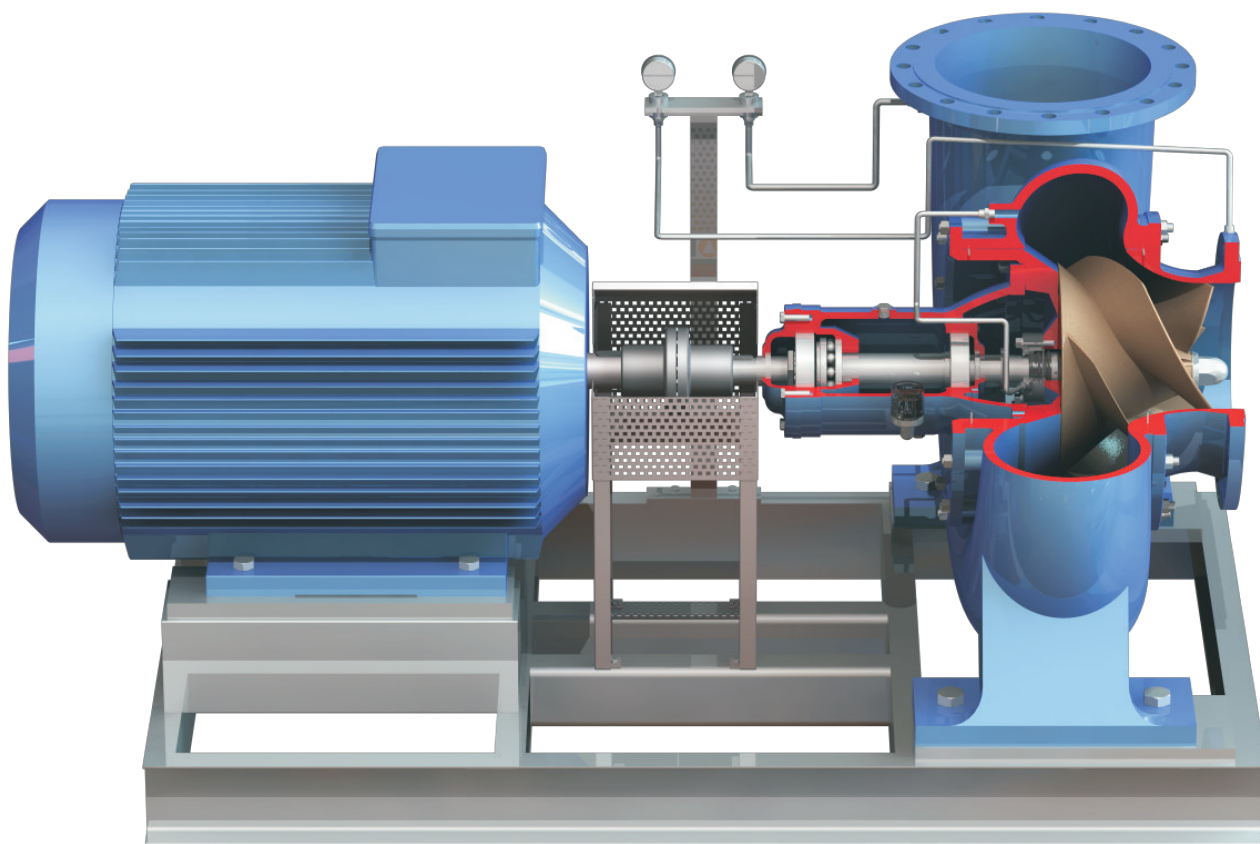
The SPP is a single-stage centrifugal pump suitable for handling pure or contaminated liquids in large quantities.

Capability range

The complete capacity range covers discharges rates up to 5500 m³/h and delivery heads up to 30 m.l.c.

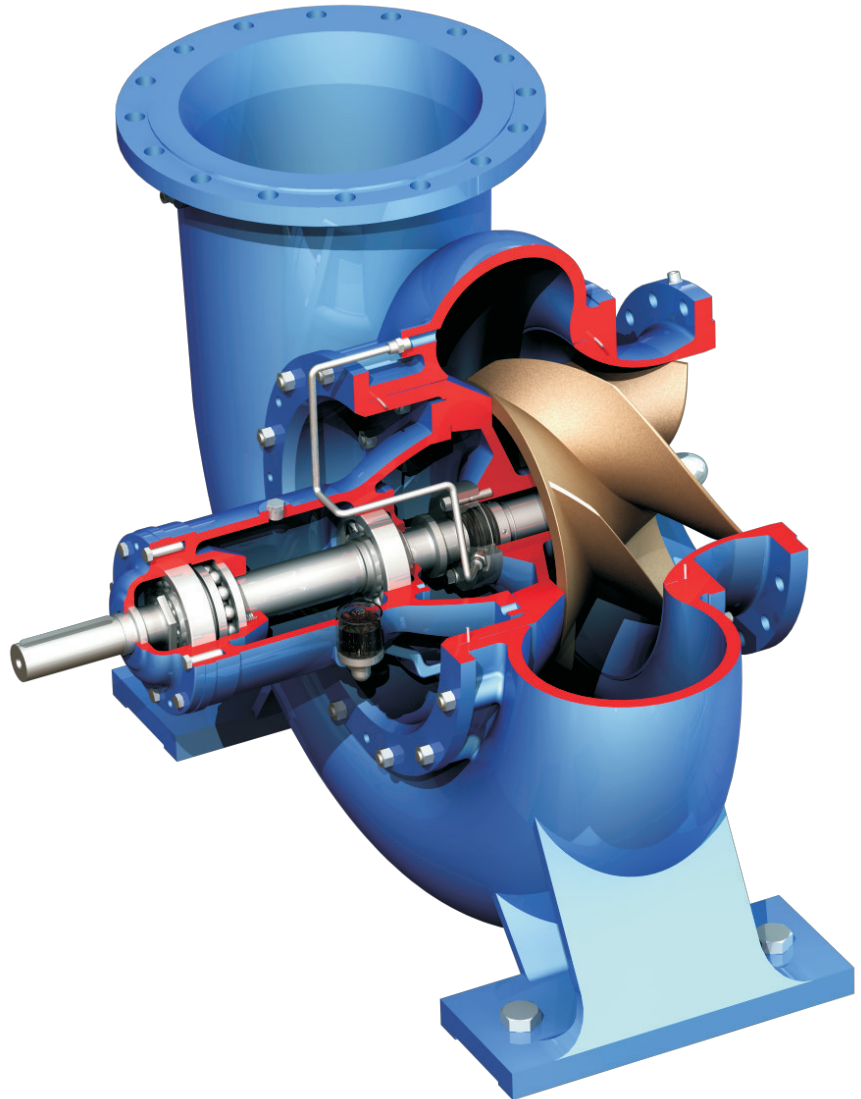
General characteristics

- Favourable energy consumption thanks to the high efficiency
- Practically uniform power requirement over the complete performance range: the pump can therefore operate with closed valves without overloading the drive motor
- Due to the large cross sections minimal risk of clogging
- Robust construction and long working life



Design

Pump of “pull-out” design, i.e. the pipework does not have to be disconnected for inspection and dismantling of the impeller and shaft seal. The precision-machined pump shaft is seated in amply, oil-lubricated bearings and protected by a shaft sleeve in the stuffing box area. The oil level in the bearing housing is controlled by way of a “constant-level” oiler. The easily accessible stuffing-box with soft packing can also be supplied with a seal ring and a seal liquid. The integrally-cast feet of the casing transmit any forces originating from the pipework directly to the foundation.



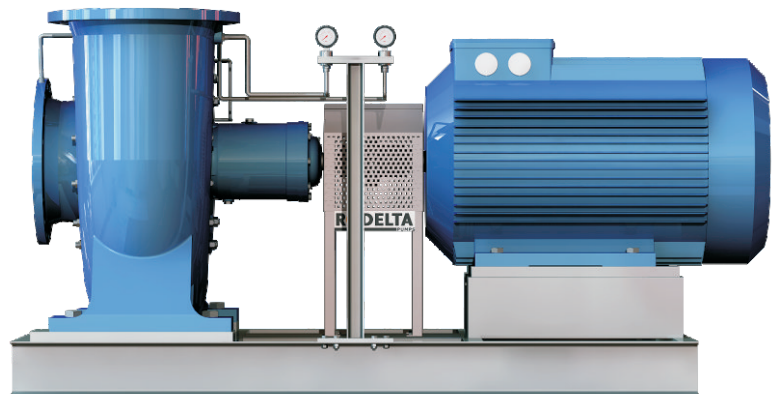
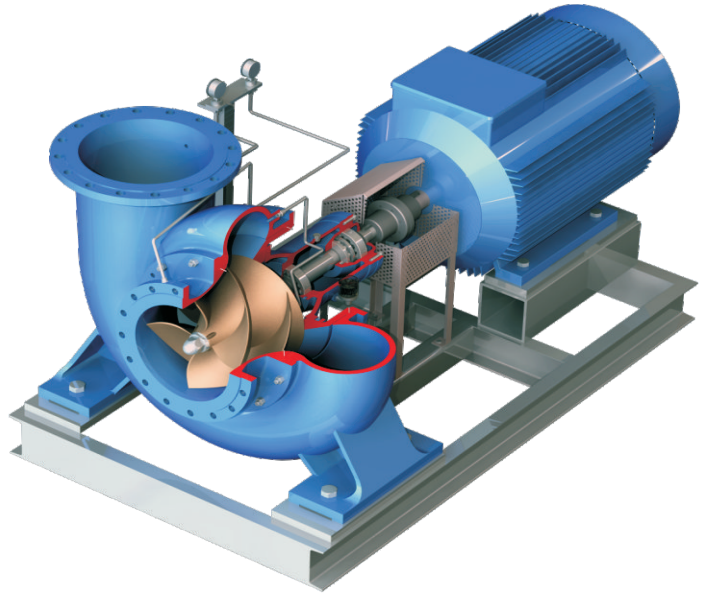
This means that the rotor is not subject to any bending and optimal working life of the bearings is assured.

The flange dimensions of the tangential, vertical delivery branch and the axial suction branch for the sizes up to and including 35-40 are in accordance with NEN 5802/DIN 2532 (Nominal Pressure NP 10) and the larger pumps according to nominal pressure NP6.

Direction of rotation of the pump: clockwise, when viewed from the driven end.

Electric motors or combustion engines may be employed for the drive.

To facilitate venting of the suction pipe, the pump set can be provided with a complete venting device.





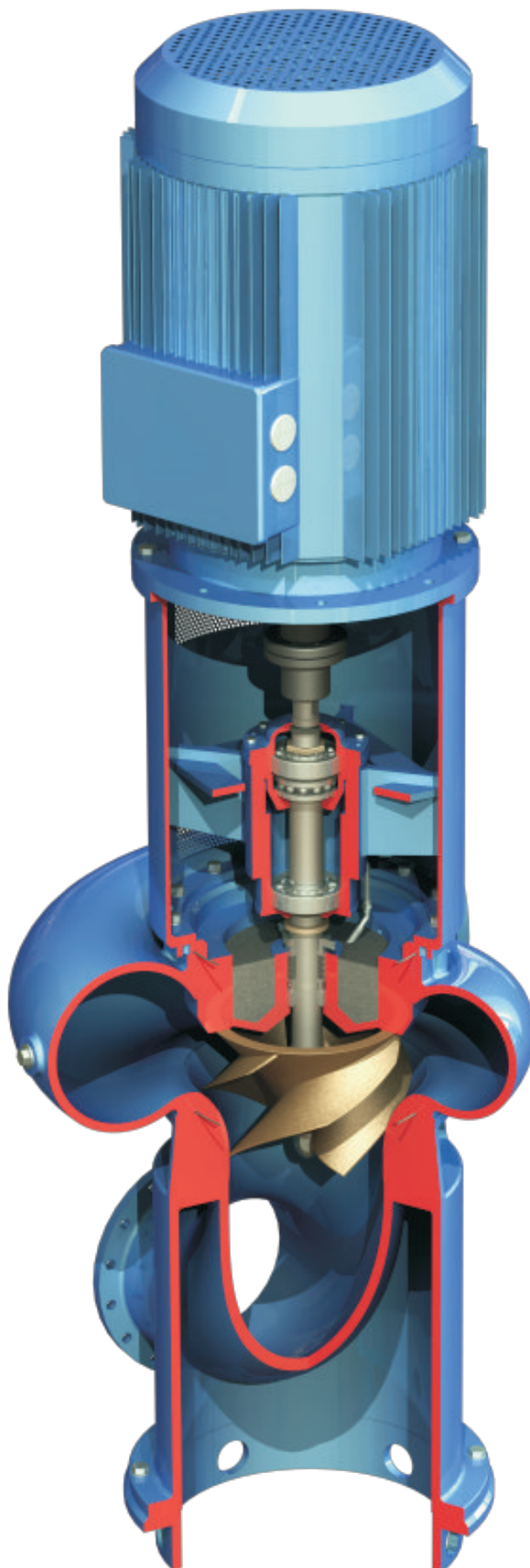
- Cooling water pumps for condenser systems
- Irrigation pumps for agricultural purposes
- Drainage pumps for water engineering and the building industry
- Flushing water pumps for filter-plants

In short, wherever clean and contaminated liquids have to be transported economically in large quantities and with low delivery heads



Vertical design**(Type SPV)**

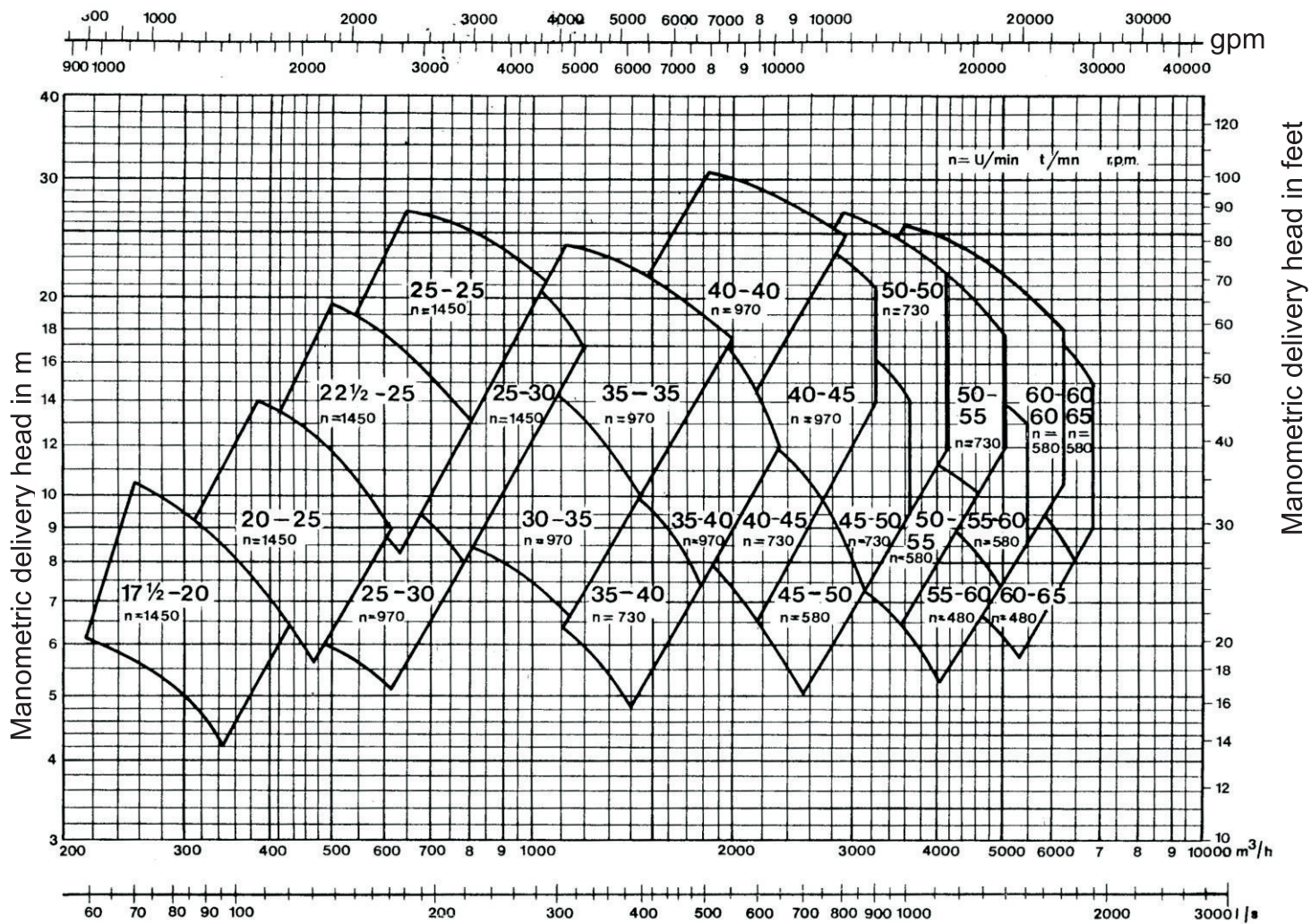
- Pump of “top pull-out” design with the same performance range as the horizontal version
- Modular assembly system with central support or with casing feet. A further vertical version is also available, in which the drive motor is installed in such a way that is separated from the pump and thus protected against any water damage

**Materials**

Standard version made of grey cast iron, with pump shaft of high quantity steel and shaft sleeve of stainless steel.

A bronze impeller is recommended for delivery heads in excess of 12 m. Pumps made of bronze or stainless steel are available for the transport of aggressive media.

Curves



Discharge

Valid for $\gamma = 1\text{kg/litre}$ and viscosity = 1° Engler

Model	Impeller cut	Impeller Dia.	Capacity	Head	(NPSH)r	Motor model and power (KW)					
						Densit (kg/m3)					
Speed n(r/min)		(mm)	(m3/h)	(m)	(m)	1000	Model	1350	Model	1840	Model
SPP17 1/2-20	A	236	360	8.5	3.2	15	160L	18.5	180M	32	180L
n=1450	B	222	340	7.5	3	11	160M	15	160	18.5	180M
	C	210	320	6.3	3	11	160M	11	L160M	15	160L
	D	198.5	300	5	4.5	7.5	132M	11	160M	11	160M
SPP20-25	A	270	530	11.2	4	22	180L	30	200L		
n=1450	B	254	500	10	3.9	22	180L	30	200L		
	C	240	460	8.5	3.8	18.5	180M	22	180L	30	200L
	D	226.5	430	15	5.5	15	160L	18.5	180M	22	180L
SPP20-25	A	270	350	5	4	7.5	160M	11	160L	15	180L
n=970	B	254	330	4.5	3.8	7.5	160M	11	160L	11	160L
	C	240	300	3.9	3.6	5.5	132M	7.5	160M	11	160L
SPP221/2-25	A	304	700	15.8	5	45	225M	55	250M	75	280S
n=1450	B	285	650	14	5	37	225S	55	250M	75	280S
	C	270	625	11.5	5	30	200L	45	225M	55	250M
	D	255	575	9.5	5	22	180L	30	200L	45	225M
SPP25-25	A	338	900	24	6	90	280M	110	315S		
n=1450	B	317	850	21	5.9	75	280S	90	280M		
	C	300	780	18	6	55	250M	75	280S	110	315S
	D	283.5	725	14	6.1	45	225M	75	280S	75	280S
SPP25-30	A	317	1100	19.5	6.4	90	280M	110	315S		
n=1450	B	300	1040	17	6	75	280S	90	280M		
	C	283.5	950	14.8	5.8	55	250M	75	280S	110	315S
	D		880	12	9	45	225M	75	250M	75	280S
SPP25-30	A	338	750	8.5	4.7	30	225M	37	250M	45	280S
n=970	B	317	700	7.6	4	22	200L2	30	225M	37	250M
	C	300	650	6.5	3.8	18.5	200L1	22	200L2	30	225M
	D	283.5	600	5.3	7.2	15	180L	18.5	200L1	30	225M
SPP30-35	A	405	1300	12.2	4.4	75	315S	75	315S	110	315M2
n=970	B	380	1200	11	4	55	280M	75	315S	90	315M1
	C	360	1150	9	4	45	280S	55	280M	75	315S
	D	340	1050	7.2	6	30	225M	45	280S	55	280M
SPP35-35	A	472	1600	21	5.2	132	315M3	160	355S2		
n=970	B	444	1500	317	5.3	90	315M1	132	315M3		
	C	420	1450	13.5	5.5	75	315S	110	315M2	132	315M3
	D	396.5	1300	11	7.8	55	280M	75	315S	110	315M2
SPP35-40	A	472	2000	17	6	132	315M3	160	355S2		
n=970	B	444	1900	15	5.5	110	315M2	160	355S2		
	C	420	1800	12.2	5.2	90	315M1	110	315M2	160	355S2
	D	396.5	1700	10	8	75	315S	90	315M1	110	315M2
SPP35-40	A	472	1500	9.6	4	55	315S	75	315M1	110	315M3
n=730	B	444	1450	8.1	3.9	45	280M	75	315M1	90	315M2
	C	420	1350	7	3.6	37	280S	55	315S	75	315M1
	D	396.5	1250	5.7	5.8	30	250M	37	280S	55	315S
SPP40-40	A	540	2400	28	7	250	355L				
n=970	B	507	2300	22	7	185	355S3	250	355L		
	C	480	2100	18	7	132	315M3	185	355S3	250	355L3
	D	453	2000	14.5	9.8	110	315M2	160	355S2	185	355S3

SPP40-45	A	540	3200	20.6	8	250	355L			250	
n=970	B	507	3000	18.5	7.5	200	355S1				
	C	480	2800	16	7.1	160	355S2	220	335M3		
	D	453	2500	13.5	7	132	315M3	185	355S		355L
SPP40-45	A	540	2400	11.6	6	110	315M3	132	355S2	185	355M
n=730	B	507	2200	10.9	5.4	90		132	355S2	160	355S4
	C	480	2000	9.5	5	75	315M3	110	315M3	132	355S2
	D	453	1800	8	8	55		75	315M1	110	
							3115M1				315M3
							315S				
SPP45-50	A	608	3300	15.8	5.2	185	355M				
n=730	B	571	3100	13.8	5	160	355S4				
	C	540	2900	12	5	132		160	355S4		
	D	510	2600	10.2	7.3	110	355S3	132	355S2	185	355M
							315M2				
SPP45-50	A	608	2600	10	3.4	90	355S2	132	355M		
n=580	B	570	2500	8.6	3.1	75	315M3	110	355S4	160	355L
	C	540	2300	7.8	3	75	315M3	90	355S2	132	355M
	D	510	2200	6	5.8	55	315M3	75	315M3	90	355S2
SPP50-50	A	675	3700	24	5						
n=730	B	634	3400	20	5						
	C	600	3200	16	5	185	344M				
	D	567	3000	12.8	7	132	355S2	185	355M		
SPP50-55	A	675	4500	20	5.5						
n=730	B	634	4300	17.5	5.1						
	C	600	4000	15	5						
	D	567	3800	12.3	7.6	185	355M				
SPP50-55	A	675	3600	12.6	3.8	160	355L				
n=580	B	634	3400	11	3.4	132	355M				
	C	600	3200	9.4	3.1	110	355S4	160	355L		
	D	567	3000	8	5.8	90	355S2	132	355M	160	355L
SPP55-60	A	742	4800	15	5.2						
n=580	B	696	4400	13.5	5						
	C	660	4100	11.5	4	132	355M				
	D	623	3900	9.5	7.2	132	355M				
SPP55~60	A	742	3900	10.5	3.5						
	B	696	3700	9.1	3.2						
n=480	C	660	3400	8	2.9						
	D	623	3200	6.5	2.7						
SPP60-60	A	810	5200	21.5	5.6						
n=580	B	760	5000	17	5.6						
	C	720	4500	14	5.6						
	D	680	4300	11	7.8						
SPP60-65	A	810	6200	17	6.2						
n=580	B	760	5800	15	6						
	C	720	5400	13	5.8						
	D	680	5100	10.5	8						
SPP60-65	A	810	5200	11.5	4.3						
n=480	B	760	4900	10	3.8						
	C	720	4700	8.5	3.7						
	D	680	4400	7	7						