



# The New Definition of Purity for Your Medium

## Our Filter Systems Protect



Sinter and Scale Separation



Spray Nozzles



**Cooling Water** 



Plate Heat Exchangers



River Water



Piping Systems



Sea Water



Mechanical Seals



**Process Water** 



Pumps

	Separator	Multi-Separator	
	(SPR / BA)	(M)	
flow rate	2 m³/h to 250 m³/h	120 m³/h to 3,000 m³/h	
filter fineness	≥ 5 µm	≥ 5 µm	
operating pressure	2 to 63 bar	2 to 63 bar	
pressure loss	0.6 bis 1.2 bar	0.6 bis 1.2 bar	
with clean filter			
flange	DN 50 to DN 200	DN 150 to DN 700	
temperature	- 10 to + 110 °C	- 10 to + 110 °C	

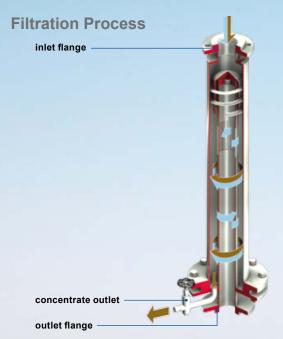
### **Scope of Delivery**



Fia	1
, ,g.	

	epara PR / E		Multi-Separa (M)		ator
steel design	•			•	
stainless steel design	•			•	
PVC design	•			-	
PE design	•			-	
Pressure Equipment Directive (PED)	•			•	
ASME		Δ			Δ
documentation	•			•	
certificates	•	Δ		•	Δ

included in the scope of delivery	•
available at extra charge	Δ
not available	-



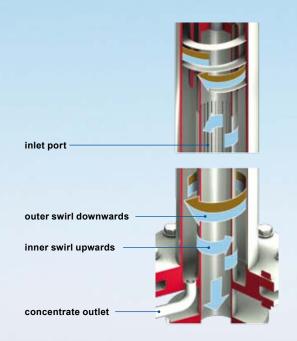


Fig. 2

#### **Mode of Operation**

The Separator (SPR) and Multi-Separator (M) are fully automatically working separating and cleaning devices for separating specifically heavy solids from liquid mediums. The raw water enters the Separator through the inlet flange. A turbo helix in the housing sets the medium to a circular motion. The resulting centrifugal forces impact the heavy particles (> 1.3 kg/dm³)

in the outer swirl. In the lower part of the separator the medium starts to move upwards again along the inner tube (= inner swirl). In the lower part of the separator the concentrate outlet is situated. The device-dependent deposited amount of solids (up to 2 % in the feed water) can be continuously drained through the concentrate outlet together with a liquid fraction

#### **Basic Unit Type SPR**

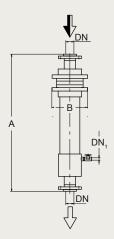
für 2 - 10 m<sup>3</sup>/h

SPR 3 / 5 / 10			
DN	50		
DN <sub>1</sub>	G 1/2"		
Α	900		
В	220		

#### **Basic Unit Type SPR**

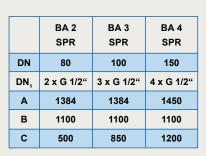
für 10 - 50 m<sup>3</sup>/h

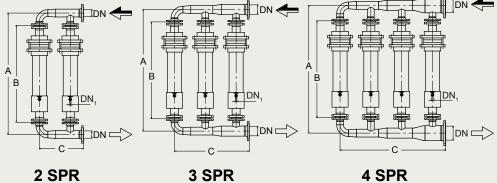
SPR 20/30/50			
DN 65			
DN₁	G 1/2"		
Α	1100		
В	300		



#### **Group Arrangement Block-Assembly Type BA**

für 100 - 250 m<sup>3</sup>/h





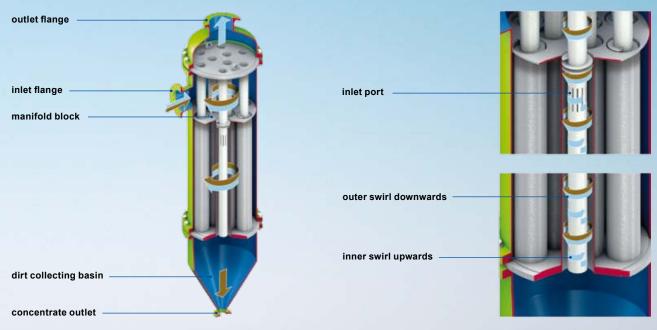


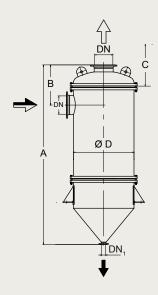
Fig. 4 Fig. 5

of 3 to 5 % of the feed water. The cleaned medium arrives in the inlet ports of the static inner tube and leaves the filter through the outlet flange. The Multi-Separator (M) bases on the design principle of the Separator (SPR). In order to allow for higher flow rates and at the same time optimizing the size ratio several Separators are installed in a common housing.

The raw water enters the Separator through the inlet flange. In the manifold block the raw water is divided on several Separators. Specifically heavy particles deposit in the dirt collecting basin. From here they can be continuously or discontinuously drained (according to customer specifications) through the concentrate outlet.

#### **Basic Unit Typ M**

für 120 - 3000 m<sup>3</sup>/h



	M4	M6	М9	M12	M18	M30	M54
flow rate in m³/h	120 - 200	180 - 300	270 - 500	360 - 600	540 - 1000	900 - 1500	1620 - 3000
DN	150	200	250	300	400	400	600
DN <sub>1</sub>	25	50	65	80	80	80	150
Α	2597	2932	3250	3524	3670	3845	4380
В	572	690	720	785	860	860	1085
С	1800	1900	1900	1900	2200	2200	2300
D	419	508	711	900	900	1300	1700
weight in kg							
empty	500	950	1260	1750	2000	3600	5200
filled	775	1530	2210	3460	4500	8100	13800



## Range of Application



Fig. 6 test water in a steel works



Fig. 7 spray in a rolling mill

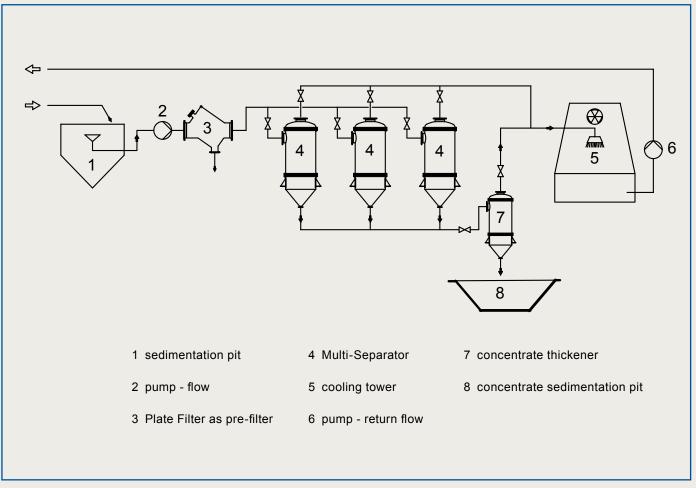


Fig. 8 arrangement plan for different separating devices in the cooling water circuit of a hot-rolled strip mill



Fig. 9

