

Chromatography
Systems Capabilities

Simplifying Progress

SARTURIUS

### Chromatography Systems Head to Head

Sartorius System

Cytiva System

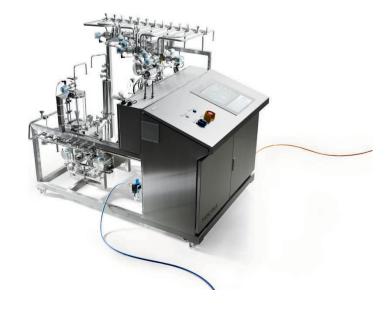
### Single-Use Systems

Flowrate Capabilities	System	System	Flowrate Capabilities
10 to 500 L   h	Sartorius S.U.T. Chrom %"	ÄKTA ready with Low Flow Kit	3 to 175 L   h
20 to 900 L h	Sartorius S.U.T. Chrom ½"	ÄKTA ready with High Flow Kit	7.5 to 510 L   h
		ÄKTA ready XL, ¾" kit	45 to 1900 L <b> </b> h
		ÄKTA ready XL, 1" kit	90 to 3500 L <b> </b> h

### Multi-Use Systems

Flowrate Capabilities	System	System	Flowrate Capabilities		
1 to 100 L <b> </b> h	PKP2	Bioprocess Modular ¼ in	1 to 60 L h		
1 to 150 L   h	PKP3	- ÄKTA process, 6 mm or ¾ in	4 to 180 L   h		
10 to 100 L <b> </b> h	PK10	- AKTA process, o fillifior 78 iff	410100 2 [11		
25 to 400 L   h	PK25	ÄKTA process, 10 mm or ½ in	15 to 600 L <b> </b> h		
50 to 1200 L   h	PK50	ÄKTA process, 1 in	45 to 1800 L   h		
100 to 2800 L   h	PK300	- Bioprocess Modular 1.5 in	200 to 5000 L]h		
300 to 5000 L   h	PK500	- Bioprocess Produiar 1.5 III	200 to 3000 E/II		
600 to 6000 L   h	PK600				
900 to 9000 L   h	PK900	Bioprocess Modular 2 in	400 to 12000 L   h		
1200 to 12000 L <b> </b> h	PK1200				







## Chromatography Skid Capabilities

Chromatography	y Skid Capab	ilities	Size	Pico	Nano
to Process Sartol	•		Connection Type		
			Membrane	Sartobind® Q Sartobind® S Sartobind® STIC Sartobind® Phenyl	
			Bed Height		
				0.08 mL	1 mL
			Recommended Application	Flowthrough   B&E	
Luer lock Hose barb or <sup>3</sup> /	4" sanitary flange 1½"	sanitary flange	Recommended Flowrate	10-30 MV min	
			Minimum Flowrate	0.0008 L  min	0.01 L   min
Sartorius System Cyt	tiva System		Maximum Flowrate	0.0032 L min	0.03 L min
System	Single-Use   Multi-Use	Flowrate	Detectors		
ÄKTA start	Multi-Use	0.5 to 5 mL min	Flow, pressure, UV, conductivity		
ÄKTA pure 25	Multi-Use	0.001 to 25 mL   min	Flow, pressure, UV, conductivity, pH		
ÄKTA avant 25	Multi-Use	0.001 to 25 mL  min	Flow, pressure, UV, conductivity, pH		
ÄKTA pure 150	Multi-Use	0.01 to 150 mL   min	Flow, pressure, UV, conductivity, pH		
ÄKTA avant 150	Multi-Use	0.01 to 150 mL  min	Flow, pressure, UV, conductivity, pH		
ÄKTA pilot	Multi-Use	4.00 to 800 mL   min	Flow, pressure, UV, conductivity, pH		
BioProcess Modular 1/4 in	Multi-Use	0.02 to 1 L   min	Flow, pressure, UV, conductivity, pH		
PKP2	Multi-Use	0.05 to 1.66 L   min	Air, pressure, conductivity, temperature, pH, UV, flow		
РКР3	Multi-Use	0.05 to 2.50 L min	Air, pressure, conductivity, temperature, pH, UV, flow		
PK10	Multi-Use	0.17 to 1.66 L   min	Air, pressure, conductivity, temperature, pH, UV, flow		
ÄKTA ready with Low Flow Kit	Single-Use	0.05 to 2.92 L   min	Flow, pressure, UV, conductivity, pH		
ÄKTA process, 6 mm polypropylene or % in stainless steel	Multi-Use	0.07 to 3.00 L min	Flow, pressure, UV, conductivity, pH electrode (optional)		
PK25	Multi-Use	0.42 to 6.66 L   min	Air, pressure, conductivity, temperature, pH, UV, flow		
Sartorius S.U.T. Chrom %"	Single-Use	0.17 to 8.33 L   min	Air, level, pressure, conductivity, temperature, pH, UV, flow		
ÄKTA ready with High Flow Kit	Single-Use	0.125 to 8.50 L   min	Flow, pressure, UV, conductivity, pH		
ÄKTA process, 10 mm polypropylene or ½ in stainless steel	Multi-Use	0.25 to 10.00 L   min	Flow, pressure, UV, conductivity, pH electrode (optional)		
Sartorius S.U.T. Chrom 1/2"	Single-Use	0.33 to 15.00 L   min	Air, level, pressure, conductivity, temperature, pH, UV, flow		
PK50	Multi-Use	0.83 to 20.00 L   min	Air, pressure, conductivity, temperature, pH, UV, flow		
ÄKTA process, 1 in polypropylene or stainless steel	Multi-Use	0.75 to 30.00 L   min	Flow, pressure, UV, conductivity, pH electrode (optional)		
ÄKTA ready XL, ¾" kit	Single-Use	0.75 to 31.67 L   min	Flow, pressure, UV, conductivity, pH electrode (optional)		
ÄKTA ready XL, 1" kit	Single-Use	1.50 to 58.33 L min	Flow, pressure, UV, conductivity, pH electrode (optional)		
PK300	Multi-Use	1.66 to 46.66 L  min	Air, pressure, conductivity, temperature, pH, UV, flow		
Bioprocess Modular 1.5 in	Multi-Use	3.33 to 83.33 L   min	Flow, pressure, UV, conductivity, pH		
PK500	Multi-Use	5.00 to 83.33 L   min	Air, pressure, conductivity, temperature, pH, UV, flow		

5"	10"	20"	30"	Jumbo	Cassette	Nano	5"	10"	20"	30"	Jumbo	Cassette				
	S	artobind® Q artobind® S 'tobind® STIC				Sartobind® Q Sartobind® S Sartobind® Phenyl										
	4 mm						8 mm									
75 mL	200 mL	400 mL	600 mL	2500 mL	800 mL*	3 mL	150 mL	400 mL	800 mL	1200 mL	5000 mL	1600 mL*				
	FI	owthrough						Ві	nd and Elute							
	10	-30 MV min	T	T	T				5 MV   min	ı						
0.75 L   min	2 L min	4 L   min	6 L min	25 L  min	8 L   min*	0.015 L   min	0.75 L   min	2 L   min	4 L   min	6 L min	25 L min	8 L   min*				
2.25 L min	6 L   min	12 L   min	18 L   min	75 L   min	24 L   min*	0.015 L   min	0.75 L   min	2 L   min	4 L   min	6 L min	25 L min	8 L   min*				
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# Chromatography Skid Capabilities to Process Columns

Part					PF	C Prepac	ked					
Section   Sect				Column Diameter (mm)		10			50			100
	_			Linear Velocity (cm   hr)	100	300	600	100	300	600	100	300
ACT A cont	Sartorius System	Cytiva System		Flowrate L  min	0.001	0.004	0.008	0.033	0.098	0.196	0.131	0.393
ACTA power 25 Mari- 10st 0.001 to 25 mL; with 19st 19st pressure LVA conductivity pith 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	System	Single-Use   Multi-Use	Flowrate	Detectors	1							
ARTA pears 150 Multi-ulas 0.001 to 25 mL Jmn Row peasure, LVX cenductivity, p1	ÄKTA start	Multi-Use	0.5 to 5 mL   min	Flow, pressure, UV, conductivity								
ARTA pour BIO Multi-Use 0.01 to 10 m. [min Foor pressure, LV cenductivity pit 1 m. 1 m. 1 m. 2 m. 2 m. 2 m. 2 m. 2 m.	ÄKTA pure 25	Multi-Use	0.001 to 25 mL   min	Flow, pressure, UV, conductivity, pH								
ACCA peract ISO Multi-Use 0.01 to 190 militaria Plos pressure UX conductivity of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ÄKTA avant 25	Multi-Use	0.001 to 25 mL   min	Flow, pressure, UV, conductivity, pH								
Art plote Multi-Use Accordance Modular Kin Accordance Modular Kin Multi-Use Accordance Modular Kin Accordance Modular Kin Multi-Use Accordance Modular Kin Accordance Accordance Modular Kin A	ÄKTA pure 150	Multi-Use	0.01 to 150 mL   min	Flow, pressure, UV, conductivity, pH								
BioProcess Modularition   Multi-Use	ÄKTA avant 150	Multi-Use	0.01 to 150 mL   min	Flow, pressure, UV, conductivity, pH					•		-	
PRPS	ÄKTA pilot	Multi-Use	4.00 to 800 mL   min	Flow, pressure, UV, conductivity, pH								
PRP3	BioProcess Modular ¼ in	Multi-Use	0.02 to 1 L   min	Flow, pressure, UV, conductivity, pH				•	•		-	
PRIOR   Multi-Use	PKP2	Multi-Use	0.05 to 1.66 L   min									
AKTA process	PKP3	Multi-Use	0.05 to 2.50 L   min									
AKTA process, of multi-Use	PK10	Multi-Use	0.17 to 1.66 L   min									
PH electrode (optional)		Single-Use	0.05 to 2.92 L   min	Flow, pressure, UV, conductivity, pH					•		-	
Satorius S.U.T. Chrom %'   Single-Use   0.17 to 8.33 L   min   Ar, level, pressure, UV, Conductivity, pH   Single-Use   0.125 to 8.50 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.25 to 10.00 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.25 to 10.00 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.25 to 10.00 L   min   Ar, pressure, UV, conductivity, pH   Single-Use   0.33 to 15.00 L   min   Ar, pressure, conductivity, temperature, pH, UV, flow   Single-Use   0.33 to 15.00 L   min   Ar, pressure, conductivity, temperature, pH, UV, flow   Single-Use   0.35 to 3.00 L   min   Flow, pressure, UV, conductivity, temperature, pH, UV, flow   Single-Use   0.75 to 3.00 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.75 to 3.00 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.75 to 3.67 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.75 to 3.67 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.75 to 3.67 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.75 to 3.67 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.75 to 3.67 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.75 to 3.67 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.75 to 3.67 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   0.75 to 3.67 L   min   Flow, pressure, UV, conductivity, pH   Single-Use   Sin	6 mm polypropylene	Multi-Use	0.07 to 3.00 L   min									•
AKTA ready XL Tribit   Single-Use   0.125 to 8.50 L Imin   Flow, pressure, UV, conductivity, pH	PK25	Multi-Use	0.42 to 6.66 L  min									
### AKTA process. To Chrom %**   Single-Use   D.25 to 10.00 L [min   Flow, pressure, UV, conductivity, phenomenance of % in stainless steel    **PK50   Multi-Use   D.75 to 30.00 L [min   Air, pressure, uV, conductivity, temperature, ph. UV, flow    **AKTA process. In polypropylene or stainless steel    **AKTA ready XL, X* kit    **Single-Use   D.75 to 30.00 L [min   Flow, pressure, UV, conductivity, ph. electrode (optional)    **AKTA ready XL, X* kit    **Single-Use   D.75 to 31.67 L [min   Flow, pressure, UV, conductivity, ph. electrode (optional)    **PK500   Multi-Use   D.50 to 58.33 L [min   Flow, pressure, UV, conductivity, ph. electrode (optional)    **PK500   Multi-Use   D.50 to 8.33 L [min   Flow, pressure, UV, conductivity, ph. electrode (optional)    **PK500   Multi-Use   D.50 to 8.33 L [min   Air, pressure, conductivity, temperature, ph. UV, flow    **PK500   Multi-Use   D.00 to 10.00 to 10.00 to 10.00 to 10.00 to 10.00 L [min   Air, pressure, conductivity, temperature, ph. UV, flow    **PK500   Multi-Use   D.00 to 15.00 to 1	Sartorius S.U.T. Chrom %"	Single-Use	0.17 to 8.33 L   min									
Dominoplypropylene		Single-Use	0.125 to 8.50 L   min	Flow, pressure, UV, conductivity, pH								
PK50         Multi-Use         0.83 to 20.00 L[min         Air, pressure, conductivity, temperature, PH. UV. flow         Image: Conductivity temperature, PH. U	10 mm polypropylene	Multi-Use	0.25 to 10.00 L   min									-
temperature, PH, UV, flow       ÄKTA process, 1 in polypropylene pylene or stainless steel     Multi-Use     0.75 to 30.00 L   min     Flow, pressure, UV, conductivity, pH electrode (optional)     Implementation   min       ÄKTA ready XL, ¼° kit     Single-Use     0.75 to 31.67 L   min     Flow, pressure, UV, conductivity, pH electrode (optional)     Implementation   min       ÄKTA ready XL, 1° kit     Single-Use     1.50 to 58.33 L   min     Flow, pressure, UV, conductivity, pH electrode (optional)     Implementation   min       PK300     Multi-Use     1.66 to 46.66 L   min     Air, pressure, conductivity, temperature, pH, UV, flow     Implementation   min       Bioprocess Modular 1.5 in     Multi-Use     3.33 to 83.33 L   min     Flow, pressure, UV, conductivity, temperature, pH, UV, flow     Implementation   min       PK500     Multi-Use     5.00 to 83.33 L   min     Air, pressure, conductivity, temperature, pH, UV, flow     Implementation   min       PK900     Multi-Use     15.00 to 15.00	Sartorius S.U.T. Chrom ½"	Single-Use	0.33 to 15.00 L   min									
In polypropylene or stainless steel  ÄKTA ready XL, ½ kit Single-Use 0.75 to 31.67 L [min Flow, pressure, UV, conductivity, pH electrode (optional)	PK50	Multi-Use	0.83 to 20.00 L  min									
AKTA ready XL, 1" kit Single-Use 1.50 to 58.33 L [min Flow, pressure, UV, conductivity, pH electrode (optional)  PK300 Multi-Use 1.66 to 46.66 L [min Air, pressure, conductivity, temperature, pH, UV, flow  Bioprocess Modular 1.5 in Multi-Use 3.33 to 83.33 L [min Flow, pressure, UV, conductivity, pH  PK500 Multi-Use 5.00 to 83.33 L [min Air, pressure, conductivity, temperature, pH, UV, flow  PK600 Multi-Use 10.00 to 100.00 L [min Air, pressure, conductivity, temperature, pH, UV, flow  PK900 Multi-Use 15.00 to 150.00 L [min Air, pressure, conductivity, temperature, pH, UV, flow  Bioprocess Modular 2 in Multi-Use 6.67 to 200.00 L [min Flow, pressure, UV, conductivity, pH  PK1200 Multi-Use 20.00 to Air, pressure, conductivity,  Air, pressure, conductivity, pH  PK1200 Multi-Use 20.00 to Air, pressure, conductivity,	1 in polypropylene	Multi-Use	0.75 to 30.00 L min									
PK300 Multi-Use 1.66 to 46.66 L min Air, pressure, conductivity, temperature, pH, UV, flow  Bioprocess Modular 1.5 in Multi-Use 3.33 to 83.33 L min Flow, pressure, UV, conductivity, pH  PK500 Multi-Use 5.00 to 83.33 L min Air, pressure, conductivity, temperature, pH, UV, flow  PK600 Multi-Use 10.00 to Air, pressure, conductivity, temperature, pH, UV, flow  PK900 Multi-Use 15.00 to 150.00 L min Air, pressure, conductivity, temperature, pH, UV, flow  Bioprocess Modular 2 in Multi-Use 6.67 to 200.00 L min Flow, pressure, UV, conductivity, pH  PK1200 Multi-Use 20.00 to Air, pressure, conductivity,	ÄKTA ready XL, ¾" kit	Single-Use	0.75 to 31.67 L   min									
temperature, pH, UV, flow  Bioprocess Modular 1.5 in Multi-Use 3.33 to 83.33 L min Flow, pressure, UV, conductivity, pH  PK500 Multi-Use 5.00 to 83.33 L min Air, pressure, conductivity, temperature, pH, UV, flow  PK600 Multi-Use 10.00 to 100.00 L min Air, pressure, conductivity, temperature, pH, UV, flow  PK900 Multi-Use 15.00 to 150.00 L min Air, pressure, conductivity, temperature, pH, UV, flow  Bioprocess Modular 2 in Multi-Use 6.67 to 200.00 L min Flow, pressure, UV, conductivity, pH  PK1200 Multi-Use 20.00 to Air, pressure, conductivity,	ÄKTA ready XL, 1" kit	Single-Use	1.50 to 58.33 L   min									
PK500 Multi-Use 5.00 to 83.33 L min Air, pressure, conductivity, temperature, pH, UV, flow  PK600 Multi-Use 10.00 to 100.00 L min Air, pressure, conductivity, temperature, pH, UV, flow  PK900 Multi-Use 15.00 to 150.00 L min Air, pressure, conductivity, temperature, pH, UV, flow  Bioprocess Modular 2 in Multi-Use 6.67 to 200.00 L min Flow, pressure, UV, conductivity, pH  PK1200 Multi-Use 20.00 to Air, pressure, conductivity,	PK300	Multi-Use	1.66 to 46.66 L   min									
Note	Bioprocess Modular 1.5 in	Multi-Use	3.33 to 83.33 L   min	Flow, pressure, UV, conductivity, pH								
PK900   Multi-Use   15.00 to   150.00 L min   Flow, pressure, Conductivity, temperature, pH, UV, flow   Sioprocess Modular 2 in   Multi-Use   6.67 to 200.00 L min   Flow, pressure, UV, conductivity, pH   PK1200   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modular 2 in   Multi-Use   20.00 to   Air, pressure, conductivity,   Sioprocess Modula	PK500	Multi-Use	5.00 to 83.33 L min									
Bioprocess Modular 2 in Multi-Use 6.67 to 200.00 L min Flow, pressure, UV, conductivity, pH  PK1200 Multi-Use 20.00 to Air, pressure, conductivity,	PK600	Multi-Use										
PK1200 Multi-Use 20.00 to Air, pressure, conductivity,	PK900	Multi-Use										
	Bioprocess Modular 2 in	Multi-Use	6.67 to 200.00 L   min	Flow, pressure, UV, conductivity, pH								
	PK1200	Multi-Use										

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				Resolute DM																	
Docal	ute FM			Resolute Hydraulic DAP  Resolute Linear																	
Resor	ute FIM	200		400 600							Resolute Linear					1500				2000	
600	100	300	600	100	300	600	100	300	600	100	300	600	100	300	600	100	300	600	100	300	600
0.785	0.524	1.57	3.14	2.09	6.28	12.6	4.71	14.1	28.3	8.38	25.1	50.3	13.1	39.3	78.5	29.5	88.4	177	52.4	157	314
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### Germany

Sartorius Stedim Biotech GmbH August-Spindler-Strasse 11 37079 Goettingen Phone +49 551 308 0

★ For further contacts, visit

www.sartorius.com

#### USA

Sartorius Stedim North America Inc. 565 Johnson Avenue Bohemia, NY 11716 Toll-Free +1 800 368 7178