

CONCEPT SQ

Ultra hygienic, ultra gentle product handling for applications requiring superior cleanability including aseptic & sterile process environments. The Concept SQ was designed to eliminate potential product retaining areas in the flow path & to provide the facility for permanent sterile barriers at all product/atmosphere interfaces. The Concept SQ is the benchmark for CIP (Clean In Place) & SIP (Sterilize in Place) process environments.

CLEANABILITY

- Permanent sterile barriers at all product/atmosphere interfaces
- Front cover fitted with controlled compression joint allowing barrier circulation & eliminating inaccessible product-retaining crevices
- Front loading seal design maximizes drainage from the seal area
- Externally retained rotors for optimized cleanability

PERFORMANCE

- Maximum process control for aseptic, sterile or clean process environments
- Uniquely crafted multi-lobe rotors reduce pulsation & ensure gentle product handling

EASE OF MAINTENANCE

- Multi-lobe rotors with internal location & drive are retained from outside the pumping chamber
- Front loading seals positioned directly behind rotors



COMPLIANT WITH THE FOLLOWING STANDARDS



PERFORMANCE RANGE:

CAPACITY	to 109 m ³ /hr / 480 USGPM
PRESSURE	to 15 BAR / 218 PSI
VISCOSITY	to 440,000 cSt / 2,000,000 SSU
TEMPERATURE	to 150°C / 300°F

PORTING OPTIONS:

- Complete range of hygienic clamp, screw, flange & industrial screw connections
- Tri-clamp, hygienic flanged, etc.

SEAL OPTIONS:

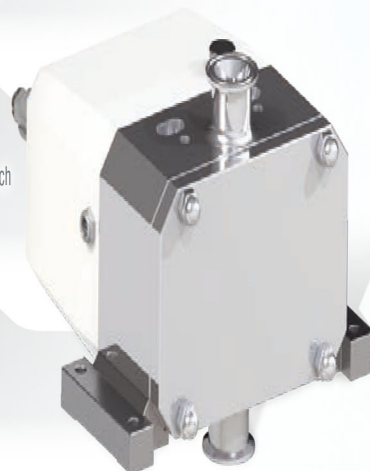
- Single mechanical SIC/SIC
- Single mechanical with flush or quench
- Double mechanical with flush
- Complete range of material options

GEARBOX OPTIONS:

- Powder-coated standard
- Stainless steel optional

ROTOR & CASING OPTIONS:

- 316L stainless steel pump casing with interior finished to 3-A standards
- 316L stainless steel rotors standard
- Improved surface finishes & electropolishing optional
- Aseptic options



ConceptSQ Model	Displacement		Max Pressure		Max Speed	Standard Ports		Max Capacity		Max Temperature	
	l/rev.	USG/rev.	BAR	PSI	RPM	mm	in.	m ³ /hr	USGPM	Deg. C	Deg. F
SQ1/0004/12	0.04	0.0106	12	175	1000	25	1	2.4	10.6	150	300
SQ1/0007/06	0.07	0.0211	6	85	1000	25	1	4.2	21.1	150	300
SQ2/0017/15	0.17	0.0449	15	218	850	40	1.5	8.67	38.165	150	300
SQ2/0030/07	0.3	0.0793	7	100	850	50	2	15.3	67.405	150	300
SQ3/0054/15	0.54	0.1427	15	218	700	50	2	22.68	99.89	150	300
SQ3/0103/07	1.03	0.2721	7	100	700	80	3	43.26	190.47	150	300
SQ4/0160/15	1.6	0.4227	15	218	600	80	3	57.6	253.62	150	300
SQ4/0303/07	3.03	0.8006	7	100	600	100	4	109.08	480.36	150	300





CLEANABILITY

- Clean Out of Place (COP), Clean In Place (CIP) & Sterilize-In-Place (SIP) options available
- Innovative designs compatible with the most stringent hygienic requirements

PERFORMANCE

- Leading flow performance & efficiency in low & high viscosity applications
- Robust designs for long-life durability

EASE OF MAINTENANCE

- Smooth running planned downtime procedures get production lines up & running quickly
- Features include front-loading seals, up front shimming, cartridge shaft assemblies & many more

TOTAL COST OF OWNERSHIP

- Ease of Maintenance + Cleanability + Performance = Reduced Total Cost of Ownership
- Wright Flow Technologies continuously seeks to save you time & optimize your facility resources



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CIRCUMFERENTIAL PISTON PUMPS

Revolution

- 17 Displacements
- Capacity: to 190 m³/hr / 836 USGPM
- Pressure: to 31 BAR / 450 PSI

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TRA20SERIES

- 11 Displacements
- Capacity: to 102 m³/hr / 450 USGPM
- Pressure: to 34 BAR / 500 PSI

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TRA10SERIES

- 9 Displacements
- Capacity: to 102 m³/hr / 450 USGPM
- Pressure: to 27 BAR / 400 PSI

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ROTARY LOBE PUMPS

SterilLobe

- 14 Displacements
- Capacity: to 171 m³/hr / 753 USGPM
- Pressure: to 15 BAR / 218 PSI

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Revolution

- 11 Displacements
- Capacity: to 76 m³/hr / 333 USGPM
- Pressure: to 15 BAR / 218 PSI

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classic+ MultiPump

- 11 Displacements
- Capacity: to 189 m³/hr / 832 USGPM
- Pressure: to 12 BAR / 174 PSI

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rtp

- 2 Displacements
- Capacity: to 76 m³/hr / 333 USGPM
- Pressure: to 12 BAR / 174 PSI

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CONCEPT SQ

- 8 Displacements
- Capacity: to 109 m³/hr / 480 USGPM
- Pressure: to 15 BAR / 218 PSI

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Pump Selection Guide

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✓ PERFORMANCE								
Max Capacity, m ³ /hr	190	102	102	107	76	189	76	109
Max Capacity, USGPM	836	450	450	472	333	832	338	480
Max Pressure, BAR	31	34	27	15	15	12	12	15
Max Pressure, PSI	450	500	400	218	218	174	174	218
Max Viscosity, cSt	440,000	200,000	200,000	200,000	440,000	200,000	200,000	440,000
Max Viscosity, SSU	2,000,000	910,000	910,000	910,000	2,000,000	910,000	910,000	2,000,000
Max Temperature °C	150	150	150	150	150	180	150	150
Max Temperature °F	300	300	300	300	300	355	300	300
✓ SIZES								
Sizes in Series	17	11	9	14	11	11	2	8
✓ CONFIGURATIONS								
Standard	✓	✓	✓	✓	✓	✓	✓	✓
Aseptic	✓	-	✓	-	✓	-	-	✓
Flanged	✓	✓	✓	✓	✓	✓	✓	✓
✓ CERTIFICATIONS								
3-A	✓	✓	✓	✓	✓	✓	✓	✓
EHEDG	✓	-	-	✓	✓	-	-	✓
✓ STANDARDS								
FDA	✓	✓	✓	✓	✓	✓	✓	✓
USDA	✓	✓	✓	✓	✓	✓	✓	✓
CE	✓	✓	✓	✓	✓	✓	✓	✓
ATEX	✓	✓	✓	✓	✓	✓	✓	✓



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