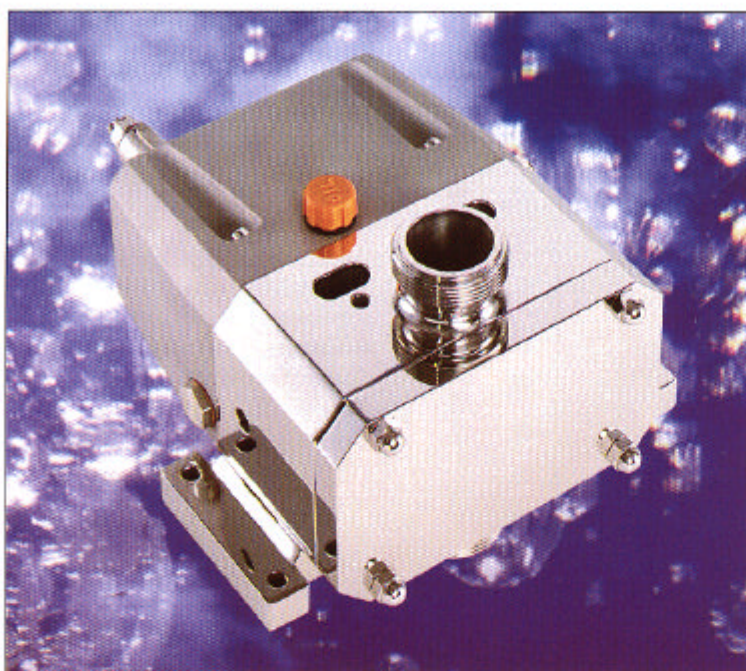




CONCEPT *SQ*

THE PUMP FOR ADVANCED HYGIENE APPLICATIONS

Front loading single, single flushed and double flushed mechanical seals are positioned directly behind the rotor maximising drainage from and cleaning of the seal area.

Product-wetted surfaces are of 316L low carbon stainless steel for improved corrosion resistance and minimum carbon migration, finished to the standards required for application acceptance.

Internal corners in the flow path through the pump are radiussed to minimise product retention and give optimum effective cleaning performance.

New multi-lobe rotors with internal location and drive are retained from outside the pumping chamber to eliminate the crevices associated with conventional fixing methods for optimum cleanliness.

Front cover fitted with a controlled compression joint, allowing barrier circulation where required, whilst eliminating all the inaccessible product-retaining crevices associated with static 'O'-ring joints.

Inlet and outlet ports can be finished to a variety of clamp, thread or flange standards, with aseptic fittings available where barrier circulation is required to ensure that the process environment is reliably maintained.

All potential entry and exit points at the product/atmosphere interfaces can be serviced with a steam or fluid barrier to ensure that product integrity and required containment are continuously maintained for maximum process control and assured operator/environmental safety.

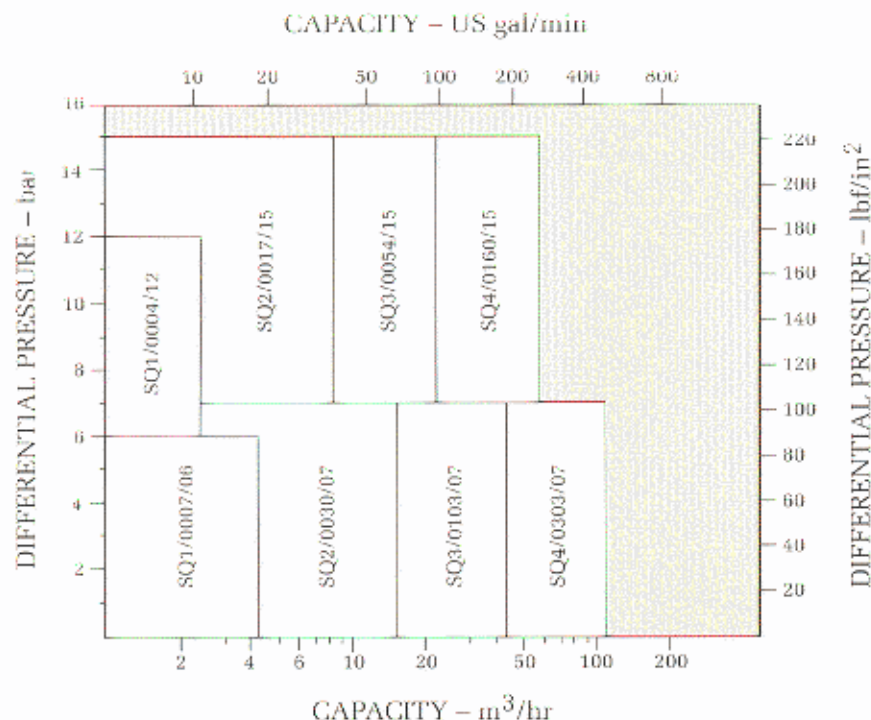
With the introduction of new processing technologies to meet consumer demand for highly sophisticated products, greater cost pressures and an increasingly complex international regulatory framework, control of the process environment is more important than ever before.

Whatever your process, the pump is at the heart. The only way to satisfy all these sometimes conflicting demands is with a pump concept that from the outset has been designed to minimise cross-contamination and resulting microbial growth – effectively, economically and with the utmost reliability.

CONCEPT SQ RANGE ROTARY LOBE PUMPS OPERATING PARAMETERS

CONCEPT SQ MODEL	DISPLACEMENT			STANDARD CONNECTION SIZE (INTERNATIONAL STANDARDS)		DIFFERENTIAL PRESSURE (MAXIMUM)		MAXIMUM SPEED (CONTINUOUS RATING)
	litres/ rev	l gal/ 100 rev	US gal/ 100 rev	mm	inches	bar	lbf/in ²	
SQ1/0004/12 SQ1/0007/06	0.04 0.07	0.88 1.76	1.06 2.11	25 25	1.0 1.0	12 6	175 85	1000 1000
SQ2/0017/15 SQ2/0030/07	0.17 0.30	3.74 6.60	4.49 7.93	40 50	1.5 2.0	15 7	215 100	850 850
SQ3/0054/15 SQ3/0103/07	0.54 1.03	11.88 22.66	14.27 27.21	50 80	2.0 3.0	15 7	215 100	700 700
SQ4/0160/15 SQ4/0303/07	1.60 3.03	35.20 66.66	42.27 80.06	80 100	3.0 4.0	15 7	215 100	600 600

PUMP PERFORMANCE

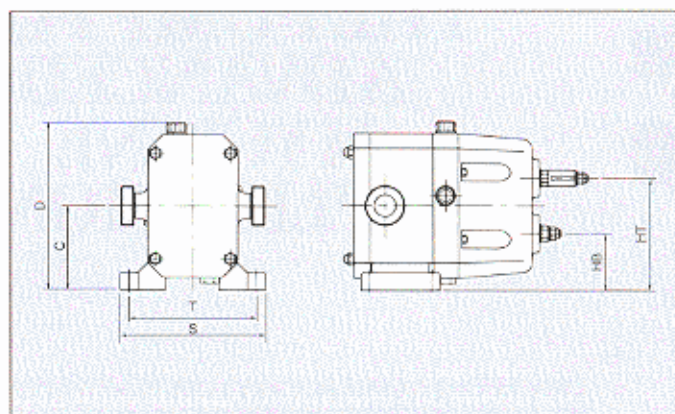
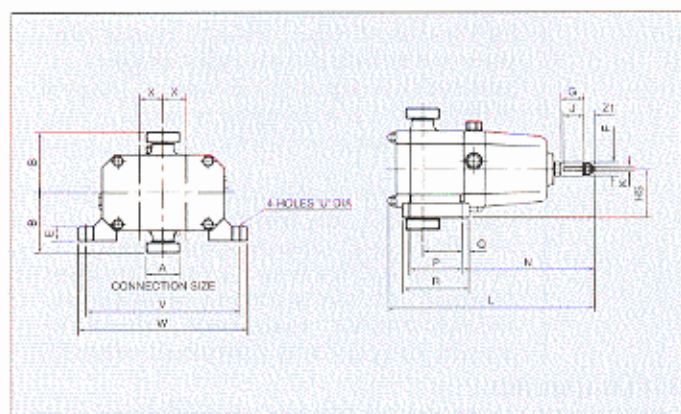


The Concept SQ range from Johnson Pump (UK) incorporates models with port sizes from 25mm (1") to 100mm (4") for flow rates up to 109m³/hr (480 US gal/min) and differential pressures up to 15 bar (215 lbf/in²).

Performance data contained in this leaflet is for guidance only. Johnson Pump (UK) application engineers are available to advise on pump selection and system design if required.

DIMENSIONS IN MILLIMETRES

SQMODEL	A	B1	B2	B3	B4	B5	C	D	E	F	G	HB	HS	HT	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Z1	WEIGHT kgs
SQ1/0004/12	25	86	104	100	107	TBA	84.5	176	17	16 j6	28	57	57	112	24	5	253	41	168	62	8	70	140	128	9	183	201	27.5	11.0	12.9
SQ1/0007/06	25	86	104	100	107	TBA	84.5	176	17	16 j6	28	57	57	112	24	5	270	56	168	62	8	70	140	128	9	183	201	27.5	11.0	13.4
SQ2/0017/15	40	107	129	121	128	TBA	118	246	21	28 j6	42	75	75	160	38	8	363	65	230	90	14	117	197	170	11	255	282	42.5	22.0	35.3
SQ2/0030/07	50	107	129	121	128	TBA	118	246	21	28 j6	42	75	75	160	38	8	391	87	230	90	14	117	197	170	11	255	282	42.5	22.0	40.3
SQ3/0054/15	50	131	153	145	152	TBA	157	324	29	38 k6	80	100	100	215	70	10	482	83	315	124	14	152	243	214	13	329	358	57.5	27.0	83.0
SQ3/0103/07	80	131	165	145	162	TBA	157	324	29	38 k6	80	100	100	215	70	10	527	115	315	124	14	152	243	214	13	329	358	57.5	27.0	91.0
SQ4/0160/15	80	178	208	192	209	TBA	216	442	30	60 m6	140	136	147	296	129	18	652	109	416	170	16	202	378	342	18	480	516	80.0	34.0	219.0
SQ4/0303/07	100	182	198	192	199	TBA	216	442	30	60 m6	140	136	147	296	129	18	714	151	416	170	16	202	378	342	18	480	516	80.0	34.0	266.0



DIMENSIONS IN INCHES

SQMODEL	A	B1	B2	B3	B4	B5	C	D	E	F	G	HB	HS	HT	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Z1	WEIGHT lbs
										(mm)							(mm)													
SQ1/0004/12	1.00	3.39	4.09	3.94	4.21	TBA	3.33	6.93	0.67	16 j6	1.10	2.24	2.24	4.41	0.94	5	9.96	1.61	6.61	2.44	0.31	3.07	5.75	5.04	0.35	7.20	7.91	1.08	0.43	28
SQ1/0007/06	1.00	3.39	4.09	3.94	4.21	TBA	3.33	6.93	0.67	16 j6	1.10	2.24	2.24	4.41	0.94	5	10.63	2.20	6.61	2.44	0.31	3.07	5.75	5.04	0.35	7.20	7.91	1.08	0.43	30
SQ2/0017/15	1.50	4.21	5.08	4.76	5.04	TBA	4.65	9.69	0.83	28 j6	1.65	2.95	2.95	6.30	1.50	8	14.29	2.56	9.06	3.54	0.55	4.81	7.76	6.59	0.43	10.04	11.10	1.67	0.87	78
SQ2/0030/07	2.00	4.21	5.08	4.76	5.04	TBA	4.65	9.69	0.83	28 j6	1.65	2.95	2.95	6.30	1.50	8	15.39	3.43	9.06	3.54	0.55	4.81	7.76	6.59	0.43	10.04	11.10	1.67	0.87	89
SQ3/0054/15	2.00	5.16	6.02	5.71	5.98	TBA	6.18	12.76	1.14	38 k6	3.15	3.94	3.94	8.46	2.78	10	18.98	3.27	12.40	4.88	0.55	5.98	9.57	8.43	0.51	12.95	14.09	2.26	1.06	183
SQ3/0103/07	3.00	5.16	6.50	5.71	6.38	TBA	6.18	12.76	1.14	38 k6	3.15	3.94	3.94	8.46	2.78	10	20.75	4.53	12.40	4.88	0.55	5.98	9.57	8.43	0.51	12.95	14.09	2.26	1.06	201
SQ4/0160/15	3.00	7.01	8.19	7.56	8.23	TBA	8.50	17.40	1.18	60 m6	5.51	5.35	5.79	11.65	5.08	18	25.87	4.29	16.38	6.69	0.63	7.95	14.88	13.46	0.71	18.90	20.31	3.15	1.34	483
SQ4/0303/07	4.00	7.17	7.80	7.56	7.83	TBA	8.50	17.40	1.18	60 m6	5.51	5.35	5.79	11.65	5.08	18	28.11	5.94	16.38	6.69	0.63	7.95	14.88	13.46	0.71	18.90	20.31	3.15	1.34	586

NOTES:

Dimensions given are for guidance only and should not be used for installation purposes. Certified dimensions will be supplied on request.

B1 applies for Tri Clamp and thread connections

B2 applies for DIN aseptic connections

B3 applies for DIN 2633 flanges

B4 applies for DIN aseptic flanges

B5 applies for aseptic/barrier connections (male & female)

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The information in this data sheet is correct at the time of issuing but may be subject to change without prior notice.