Qseals
mechanical seals

QSC SINGLE STATIONARY CARTRIDGE SEAL

QSC series - technical specification

metal parts	316 Stainless Steel as standard, other materials also available
springs	Alloy 276
o-rings	Viton (Fluorcarbon) or Ethylene Propylene (EPR) as standard. Aflas, Kalrez and other elastomers available to order.
rotary face	Silicon Carbide available as standard. Tungsten Carbide available to order
stationary	Carbon or Silicon Carbide as standard. Tungsten Carbide to order.
temperature limits	-30°C to 260°C (-22°F to 500°F) dependent upon specified elastomer and system configuration.
pressure limits	-711mm Hg vacuum to 30 Bar (-28” Hg - 440 psi)

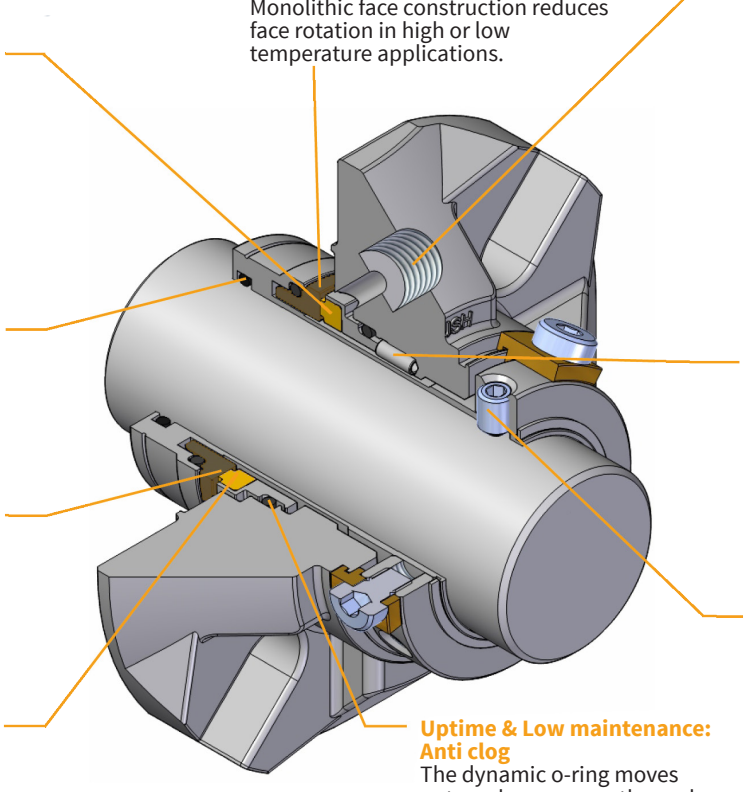
QSC series - design features

Uptime & Ease of Installation: Self aligning design
Seal face closing is created by springs located behind the stationary face of the seal. This stationary design allows for some misalignment of the shaft and housing hence preventing spring fatigue/ failure due to misalignment

Low Maintenance: No fretting of the pump shaft
The secondary (sleeve) seal o-ring is static on the shaft and is guaranteed never to fret the pump shaft or sleeve.

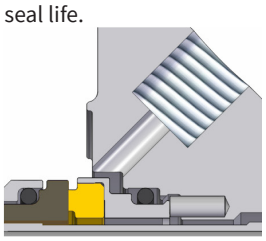
Uptime: Pressure balanced seal faces
The seal is balanced to achive optimum face loading for high pressure capability and provide cooler running for longer seal life.

Uptime: Balanced shrink fit stationary
Shrink fitted faces for optimum metal to metal drive and balanced loading design for stability at high temperatures.



Monolithic rotary face
Monolithic face construction reduces face rotation in high or low temperature applications.

Uptime: Flush connection
Connection provided for environmental control at the seal faces which will extend seal life.



Uptime & Low maintenance: Isolated springs
The Alloy 276 springs are not in the process fluid where they could corrode and clog, so they remain effective for the whole of the seal life.

Easy Maintenance: External clamping
Pump efficiency adjustments can be made without dismantling the pump.

Uptime & Low maintenance: Anti clog
The dynamic o-ring moves onto a clean area as the seal faces wear. Components remain free for longer seal life.

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lid koninklijke metaalunie

CONTACT

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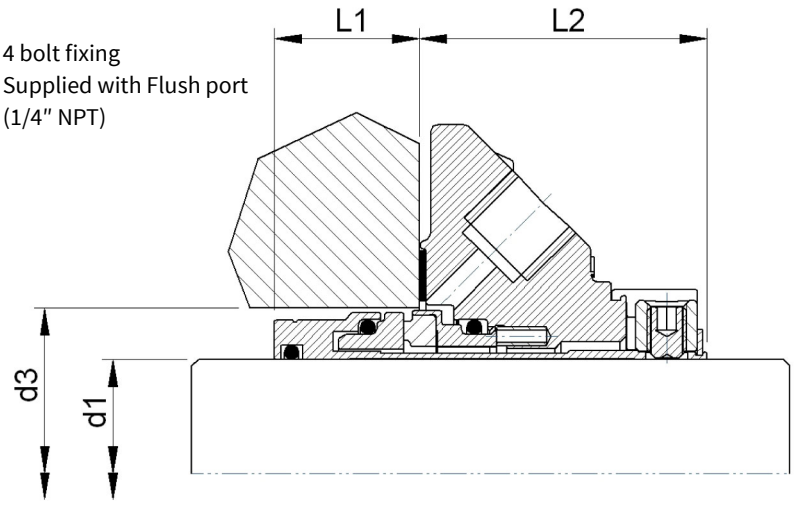
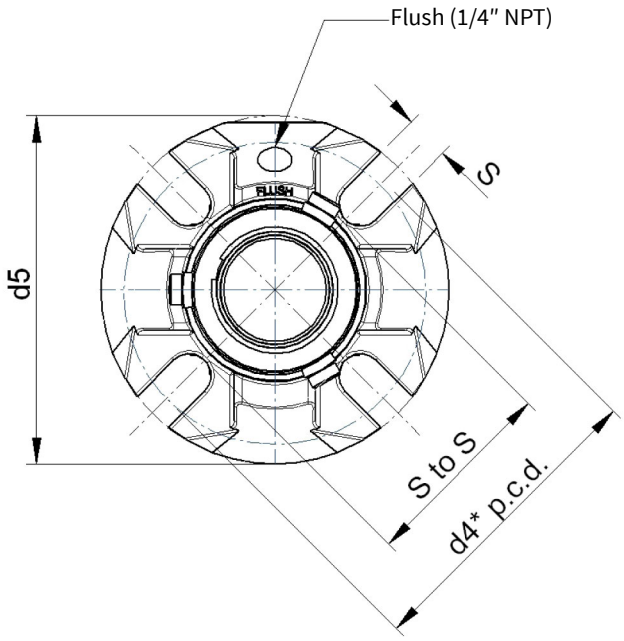
OVER QSEALS

Qseals biedt u de totaaloplossing; wij leveren en reviseren mechanical seals voor alle industriële toepassingen. Met meer dan 20 jaar ervaring voorzien wij onze klanten van advies en begeleiding in de aanschaf tot en met het montageproces. Ons doel is het vinden van de meest efficiënte oplossing voor de behoefte van onze klanten. Daarnaast laten we ons voorstaan op ons innovatievermogen; heeft de klant een uitdaging, denken we graag mee om een oplossing op maat te vervaardigen.

QSC series - dimensional information

4 bolt fixing
Supplied with Flush port
(1/4" NPT)





QSC series - size chart

d1	d3		d4*pcd		d5	L1	L2	S to S	S
Metric	S/B I.D. Min	S/B I.D. Max	Min	Max	Gland O.D.	Inboard length	Outboard length	Slot to Slot	Slot Width
24	41.0	48.0	68.5	90.5	102.5	22.0	44.6	54.5	14.0
25	41.0	48.0	68.5	90.5	102.5	22.0	44.6	54.5	14.0
28	44.0	52.0	71.5	93.5	104.5	22.0	44.6	57.5	14.0
30	46.0	55.0	75.0	97.0	110.5	22.0	44.6	61.0	14.0
32	48.0	55.0	75.0	97.0	110.5	22.0	44.6	61.0	14.0
33	49.0	55.0	75.0	97.0	110.5	22.0	44.6	61.0	14.0
33K	49.0	55.0	75.0	90.0	101.6	22.0	44.6	61.0	14.0
35	51.0	57.0	77.5	97.0	111.5	22.0	44.6	63.5	14.0
38	57.0	60.0	86.0	114.5	127.0	19.0	45.8	72.0	14.0
40	60.0	63.5	86.0	114.5	127.0	19.0	45.8	72.0	14.0
43	63.0	70.0	95.0	127.0	139.7	19.0	45.8	81.0	14.0
43K	63.0	70.0	95.0	105.0	119.6	19.0	45.8	81.0	14.0
45	64.0	70.0	95.0	127.0	139.7	19.0	45.8	81.0	14.0
48	67.0	73.0	95.0	127.0	139.7	19.0	45.8	81.0	14.0
50	70.0	76.0	104.5	139.5	152.4	19.0	45.8	90.5	14.0
53	73.0	79.5	104.5	139.5	152.4	19.0	45.8	90.5	14.0
55	74.0	82.5	114.4	149.0	165.1	19.0	45.8	96.9	17.5
58	77.0	82.5	114.4	149.0	165.1	19.0	45.8	96.9	17.5
60	79.0	85.5	114.4	149.0	165.1	19.0	45.8	96.9	17.5
63	83.0	92.0	127.0	160.5	177.8	16.0	51.0	109.5	17.5
65	85.0	95.0	127.0	160.5	177.8	16.0	51.0	109.5	17.5
70	90.0	98.0	127.0	160.5	177.8	16.0	51.0	109.5	17.5
75	99.0	108.0	143.0	173.0	190.5	21.0	51.6	125.5	17.5
80	102.0	111.0	143.0	173.0	190.5	21.0	51.6	125.5	17.5
85	108.0	117.0	156.5	182.5	203.2	21.0	51.6	135.5	21.0

d1	d3		d4*pcd		d5	L1	L2	S to S	S
Metric	S/B I.D. Min	S/B I.D. Max	Min	Max	Gland O.D.	Inboard length	Outboard length	Slot to Slot	Slot Width
1.000	1.625	1.875	2.750	3.562	4.034	0.875	1.750	2.146	0.551
1.125	1.750	2.062	2.875	3.687	4.113	0.875	1.750	2.264	0.551
1.250	1.875	2.187	3.000	3.812	4.349	0.875	1.750	2.402	0.551
1.375	2.000	2.250	3.125	3.812	4.389	0.875	1.750	2.500	0.551
1.500	2.250	2.375	3.437	4.437	5.000	0.750	1.800	2.835	0.551
1.625	2.375	2.500	3.437	4.437	5.000	0.750	1.800	2.835	0.551
1.750	2.500	2.750	3.750	4.973	5.500	0.750	1.800	3.189	0.551
1.875	2.625	2.875	3.750	4.973	5.500	0.750	1.800	3.189	0.551
2.000	2.750	3.000	4.125	5.437	6.000	0.750	1.800	3.563	0.551
2.125	2.875	3.125	4.125	5.437	6.000	0.750	1.800	3.563	0.551
2.250	3.000	3.250	4.500	5.812	6.500	0.750	1.800	3.813	0.551
2.375	3.125	3.375	4.500	5.812	6.500	0.750	1.800	3.813	0.551
2.500	3.250	3.625	5.000	6.312	7.000	0.625	2.000	4.311	0.689
2.625	3.375	3.750	5.000	6.312	7.000	0.625	2.000	4.311	0.689
2.750	3.500	3.875	5.000	6.312	7.000	0.625	2.000	4.311	0.689
2.875	3.750	4.125	5.625	6.812	7.500	0.830	2.031	4.941	0.689
3.000	3.875	4.250	5.625	6.812	7.500	0.830	2.031	4.941	0.689
3.125	4.000	4.375	5.625	6.812	7.500	0.830	2.031	4.941	0.689
3.250	4.125	4.500	6.187	7.187	8.000	0.830	2.031	5.335	0.827
3.375	4.250	4.625	6.187	7.187	8.000	0.830	2.031	5.335	0.827