

STEVCO



SEALS

MECHANICAL SEAL SOLUTIONS



TYPE 4-2 & 4-8

(Similar to Crane type 8B1 & 9BT)

DESIGN FEATURES & BENEFITS

O-Ring / Wedge Designs

Permits accommodation of many different fluids through the use of a wide variety of materials.

Mechanical Drive Design

Reduces slippage on shaft and sleeve to eliminate galling and premature wear. Seals are bi-rotational.

Balanced Design

Balanced construction, including anti-extrusion ring, permits use in higher pressures.

Lapped Faces

Lapping process results in high precision finish with optimal flatness.

Compact Design

Permits use in all types of rotating equipment - centrifugal pumps, mixers and agitators.

Field Repairable

Reduces inventory requirements. Seals can be repaired easily on-site or at Stevco Seals & Pumps seal repair centre.

MATERIAL OPTIONS

Faces:

Rotary- Carbon and Silicon Carbide

Stationary- Ceramic, Silicon Carbide and Tungsten Carbide

Hardware:

316 S/S, Hast C and Monel

Springs:

316 S/S, Monel and Hast C

SEAL APPLICATIONS

General industrial applications including;

Process services, lubricating liquids, aqueous solutions, chemicals, corrosives, and some acids.

Rugged mechanical seals available in a wide variety of elastomers for handling practically any industrial fluid.

All components are held together by a snap ring in a unitised construction design which eases installation and removal.

OPERATING CONDITIONS

•Pressures:

Type 4-2 & 4-8: To 1200psig (83 bar)
8300kPa

•Temperatures:

-40°C to +260°C

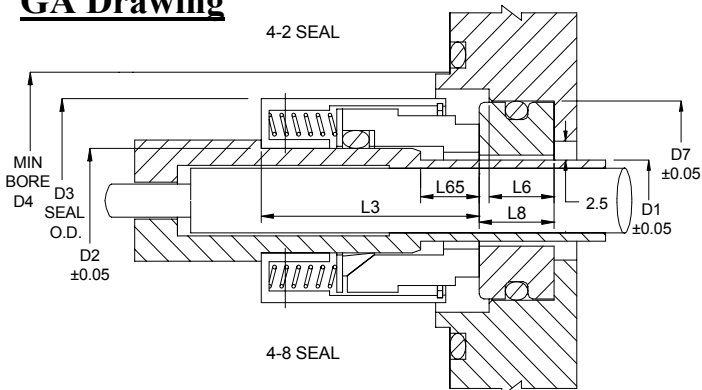
(See reverse page for Secondary Seal Graph)

•Speed:

Up to 25 m/s/5000 fpm.

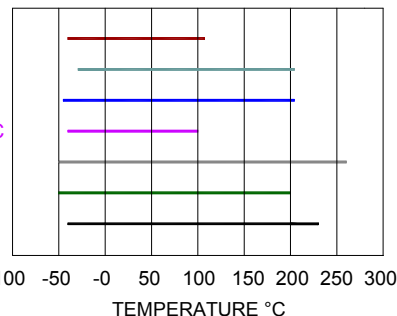
STEVCO 4-2 & 4-8 SPECIFICATIONS

GA Drawing



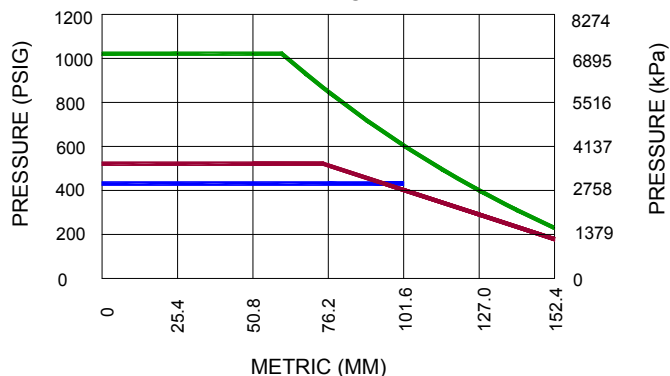
ELASTOMER TEMPERATURE LIMITS

BUNA -40°C TO 107°C
 VITON -29°C TO 204°C
 EPDM -45°C TO 204°C
 NEOPRENE -40° TO 100°C
 KALREZ -50°C TO 260°C
 SILICON -50°C TO 200°C
 PTFE -40°C TO 230°C



SEAL SIZE		D1	D2	D3	D4	D7	L3	L6	L8	L65
Imperial	Metric									
1.000	25.40	22.20	25.40	40.30	43.00	38.10	33.00	8.71	10.31	8.00
1.125	28.50	25.40	28.58	43.40	46.00	41.27	35.00	9.52	11.10	7.90
1.250	31.70	28.60	31.75	48.30	51.00	44.45	35.00	9.52	11.10	7.90
1.375	34.92	28.60	34.93	51.30	54.00	44.45	37.00	9.52	11.10	8.70
1.500	38.10	31.80	38.10	54.50	58.00	47.62	37.00	9.52	11.10	8.70
1.625	41.20	34.90	41.28	60.80	64.00	50.80	45.00	9.52	11.10	8.70
1.750	44.40	38.10	44.45	64.00	67.00	53.97	45.00	9.52	11.10	9.50
1.875	47.60	41.30	47.63	67.20	70.00	60.32	45.00	11.10	12.70	9.50
2.000	50.80	44.50	50.80	70.40	73.00	63.50	45.00	11.10	12.70	9.50
2.125	53.90	47.60	53.98	76.70	80.00	66.67	52.00	11.10	12.70	11.10
2.250	57.10	50.80	57.15	79.90	83.00	69.85	52.00	11.10	12.70	11.10
2.375	60.30	54.00	60.33	83.10	86.00	76.20	52.00	12.70	14.27	11.10
2.500	63.50	57.20	63.50	86.20	89.00	79.37	52.00	12.70	14.27	11.10
2.625	66.60	60.30	66.68	89.40	92.00	82.55	52.00	12.70	14.27	11.10
2.750	69.80	63.50	69.85	92.60	96.00	85.72	52.00	12.70	14.27	11.10
2.875	73.00	66.70	73.03	95.80	99.00	85.72	52.00	14.30	15.87	11.10
3.000	76.20	69.90	76.20	97.30	100.00	88.90	52.00	14.30	15.87	11.10
3.125	79.30	73.00	79.38	100.50	104.00	95.25	52.00	14.30	15.87	11.10
3.250	82.50	76.20	82.55	105.30	108.00	98.42	52.00	14.30	15.87	14.30
3.375	85.70	79.40	85.73	108.50	111.00	101.60	52.00	16.70	19.84	14.30
3.500	88.90	82.60	88.90	111.60	115.00	104.77	52.00	16.70	19.84	14.30
3.625	92.00	85.70	92.08	114.80	118.00	107.95	52.00	16.70	19.84	14.30
3.750	95.20	88.90	95.25	118.00	121.00	111.12	52.00	16.70	19.84	14.30
3.875	98.40	92.10	98.43	121.20	124.00	114.30	52.00	16.70	19.84	14.30
4.000	101.60	95.30	101.60	124.30	127.00	117.47	52.00	16.70	19.84	14.30

PV LIMITS



TYPE 4-8 CARBON vs TUNGSTEN CARBIDE (1800 rpm)

TYPE 4-2 CARBON vs TUNGSTEN CARBIDE (1800 rpm)

TYPE 4-2 CARBON vs CERAMIC (1800 rpm)



STEVCO SEALS AND PUMPS PTY LTD

11 Samantha Place, SMEATON GRANGE NSW 2567 ~ Ph (02) 4629 6500

STEVCO SEALS & PUMPS VICTORIA P/L

U8, 53 Gateway Blvd, EPPING VICTORIA 3076 Ph (03) 9408 3875