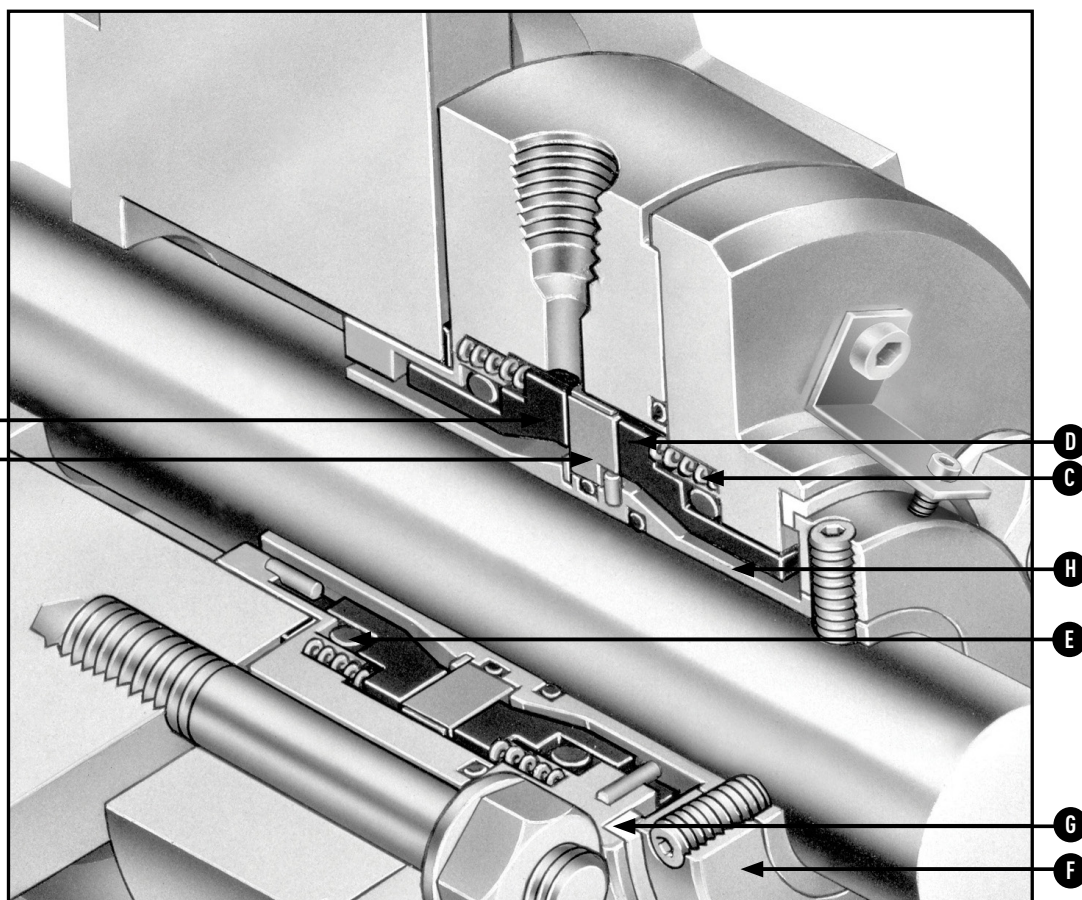


EXTERNALLY MOUNTED, GAS LUBRICATED, NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification

- A – Seat/mating ring
- B – Face/primary ring (inboard)
- C – Spring
- D – Face/primary ring (outboard)
- E – O-ring
- F – Drive collar
- G – Setting ring
- H – Sleeve



Spiral groove technology



Product description

Type 2800E, 2800EX and the type 2800EC are state-of-the-art gas lubricated, non-contacting double seal cartridges. The 'EX' and 'EC' versions have both been specifically designed to handle solids, with the 'EX' version having an expeller, and the 'EC' version having both an expeller and a V-Ring.

They all provide zero emissions operation, extended seal life, reduced power consumption, and elimination of wet seal lubrication system. They use an available pressurised inert gas source for positively sealing hazardous process fluids with zero emissions to atmosphere. Non-contacting, dry-running technology provides high performance sealing of heat sensitive or high purity fluids.

- For maximum achievable control technology (MACT) compliance in new or existing standard bore pumps
- For high reliability sealing of volatile fluids in chemical and petrochemical processes
- Double seal alternative for positive sealing of high purity fluids without the potential for product contamination

Performance capabilities

For all three versions (2800E, 2800EX and 2800EC):

- Temperature: 40°F to 500°F / -40°C to 260°C
- Pressure: 29 to 232 Psi(g) / 2 to 16 bar(g)
- Speed: 1450 to 3600 Rpm

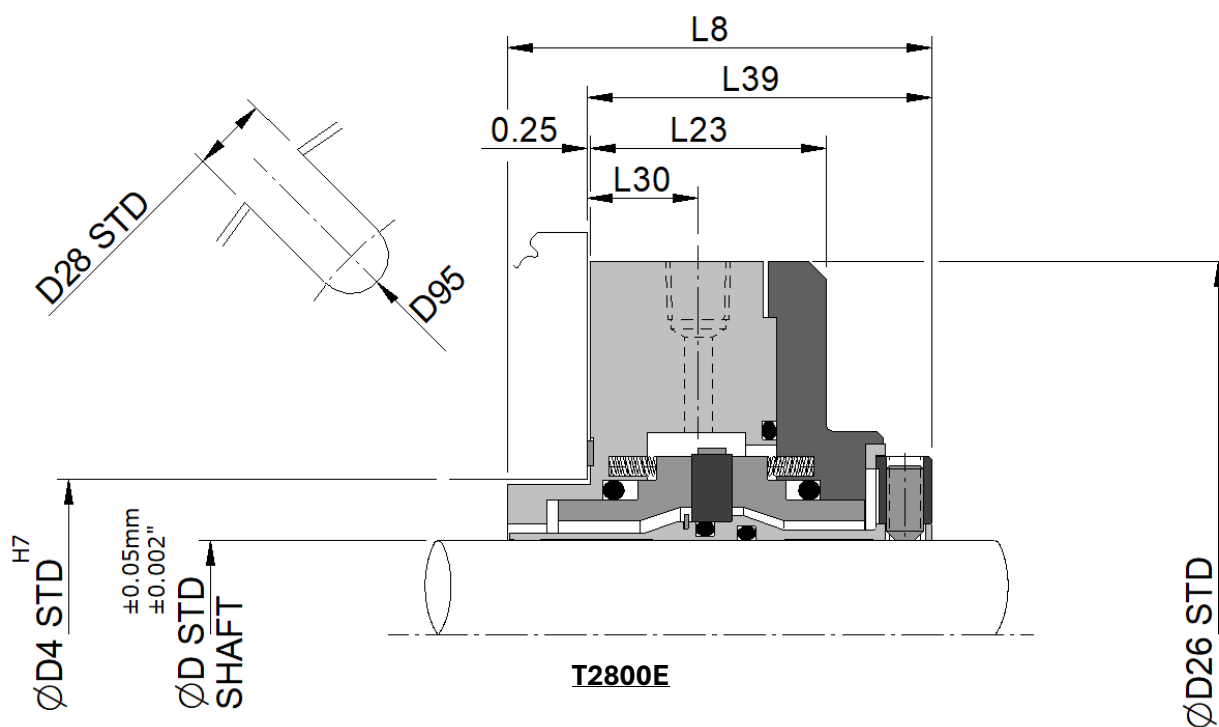
Design features

- 0.0 Fugitive Emissions
- Compact design
- Dual balanced inboard seal design
- Spiral Groove Technology
- Non-Contacting Design
- Simplified Support System

EXTERNALLY MOUNTED, GAS LUBRICATED,
NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification

Type T2800E, 2800EX and 2800EC typical arrangement



T2800E dimensions in mm - METRIC

Seal size (mm)	Seal size code	$\varnothing D$ SHAFT	$\varnothing D4$ STD	$\varnothing D26$	$\varnothing D28$	$\varnothing D95$	L8	L23	L30	L39
25	0250	25	41	114	12	64.7	67.8	37.5	15.5	54.5
28	0280	28	44	117	12	67.7	67.8	37.5	15.5	54.5
30	0300	30	46	119	12	69.7	67.8	37.5	15.5	54.5
33	0330	33	49	122	14	72.7	67.8	37.5	15.5	54.5
35	0350	35	51	124	14	74.7	67.8	37.5	15.5	54.5
38	0380	38	58	135	14	79.7	69.4	39.8	17.7	56.5
40	0400	40	60	137	14	81.7	69.4	39.8	17.7	56.5
43	0430	43	63	140	14	84.7	69.4	39.8	17.7	56.5
45	0450	45	65	142	14	86.7	69.4	39.8	17.7	56.5
50	0500	50	70	147	18	91.7	69.4	41.8	17.7	56.5
53	0530	53	73	150	18	94.7	69.4	41.8	17.7	56.5
55	0550	55	75	152	18	96.7	69.4	41.8	17.7	56.5
60	0600	60	85	157	18	101.7	69.4	41.8	17.7	56.5
65	0650	65	90	180	18	106.7	71.4	43.8	19.7	58.5
80	0800	80	109	195	18	121.7	71.4	43.8	19.7	58.5
100	1000	100	129	215	22	141.7	71.4	43.8	19.7	58.5



TYPE 2800E, 2800EX & 2800EC

3

EXTERNALLY MOUNTED, GAS LUBRICATED,
NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification

T2800E dimensions in inches - METRIC

Seal size (inches)	Seal size code	ØD	ØD4	ØD26	ØD28	ØD95	L8	L23	L30	L39
25	0250	0.984	1.614	4.488	0.472	2.547	2.669	1.476	0.610	2.146
28	0280	1.102	1.732	4.606	0.472	2.665	2.669	1.476	0.610	2.146
30	0300	1.181	1.811	4.685	0.472	2.744	2.669	1.476	0.610	2.146
33	0330	1.299	1.929	4.803	0.551	2.862	2.669	1.476	0.610	2.146
35	0350	1.378	2.008	4.882	0.551	2.941	2.669	1.476	0.610	2.146
38	0380	1.496	2.283	5.315	0.551	3.138	2.732	1.567	0.697	2.224
40	0400	1.575	2.362	5.394	0.551	3.217	2.732	1.567	0.697	2.224
43	0430	1.693	2.480	5.512	0.551	3.335	2.732	1.567	0.697	2.224
45	0450	1.772	2.559	5.591	0.551	3.413	2.732	1.567	0.697	2.224
50	0500	1.969	2.756	5.787	0.709	3.610	2.732	1.646	0.697	2.224
53	0530	2.087	2.874	5.906	0.709	3.728	2.732	1.646	0.697	2.224
55	0550	2.165	2.953	5.984	0.709	3.807	2.732	1.646	0.697	2.224
60	0600	2.362	3.346	6.181	0.709	4.004	2.732	1.646	0.697	2.224
65	0650	2.559	3.543	7.087	0.709	4.201	2.811	1.724	0.776	2.303
80	0800	3.150	4.291	7.677	0.709	4.791	2.811	1.724	0.776	2.303
100	1000	3.937	5.079	8.465	0.866	5.579	2.811	1.724	0.776	2.303

T2800E dimensions in mm - IMPERIAL

Seal size (mm)	Seal size code	ØD	ØD4	ØD26	ØD28	ØD95	L8	L23	L30	L39
0.875	0222	22.23	38.10	95.2	11.1	58.3	65.38	35.51	13.49	51.5
1.000	0254	25.40	41.30	95.2	11.1	61.5	65.38	35.51	13.49	51.5
1.125	0285	28.58	44.50	108.0	11.1	62.7	65.38	35.51	13.49	51.5
1.250	0317	31.75	50.80	108.0	11.1	67.8	65.38	35.51	13.49	51.5
1.375	0349	34.93	54.00	107.8	11.1	71	65.38	35.51	13.49	51.5
1.500	0381	38.10	57.20	123.8	11.1	79.8	69.39	39.80	17.70	57
1.625	0412	41.28	60.30	114.3	11.1	83	69.39	39.80	17.70	57
1.750	0444	44.45	63.50	139.7	14.3	86.1	69.39	39.80	17.70	57
1.875	0476	47.63	66.70	139.7	14.3	84.7	69.39	39.80	17.70	57
2.000	0508	50.80	69.90	120.7	14.3	87.9	69.39	39.80	17.70	57
2.125	0539	53.98	73.00	152.5	17.5	95.7	69.39	39.80	17.70	57
2.250	0571	57.15	79.40	165.1	17.5	98.8	69.39	39.80	17.70	57
2.375	0603	60.33	82.60	158.7	17.5	102	69.39	39.80	17.70	57
2.500	0635	63.50	85.70	165.1	17.5	105.2	71.42	43.79	19.71	59
2.625	0666	66.68	92.10	165.1	17.5	108.4	71.42	43.79	19.71	59
2.750	0698	69.85	95.30	177.8	17.5	111.5	71.42	43.79	19.71	59
3.000	0762	76.20	101.60	177.8	17.5	117.9	71.42	43.79	19.71	59
3.500	0889	88.90	114.30	184.2	20.6	130.6	71.42	43.79	19.71	59
4.000	1016	101.60	127.00	184.2	20.6	143.3	71.42	43.79	19.71	59



TYPE 2800E, 2800EX & 2800EC

EXTERNALLY MOUNTED, GAS LUBRICATED,
NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification

T2800E dimensions in inches - IMPERIAL

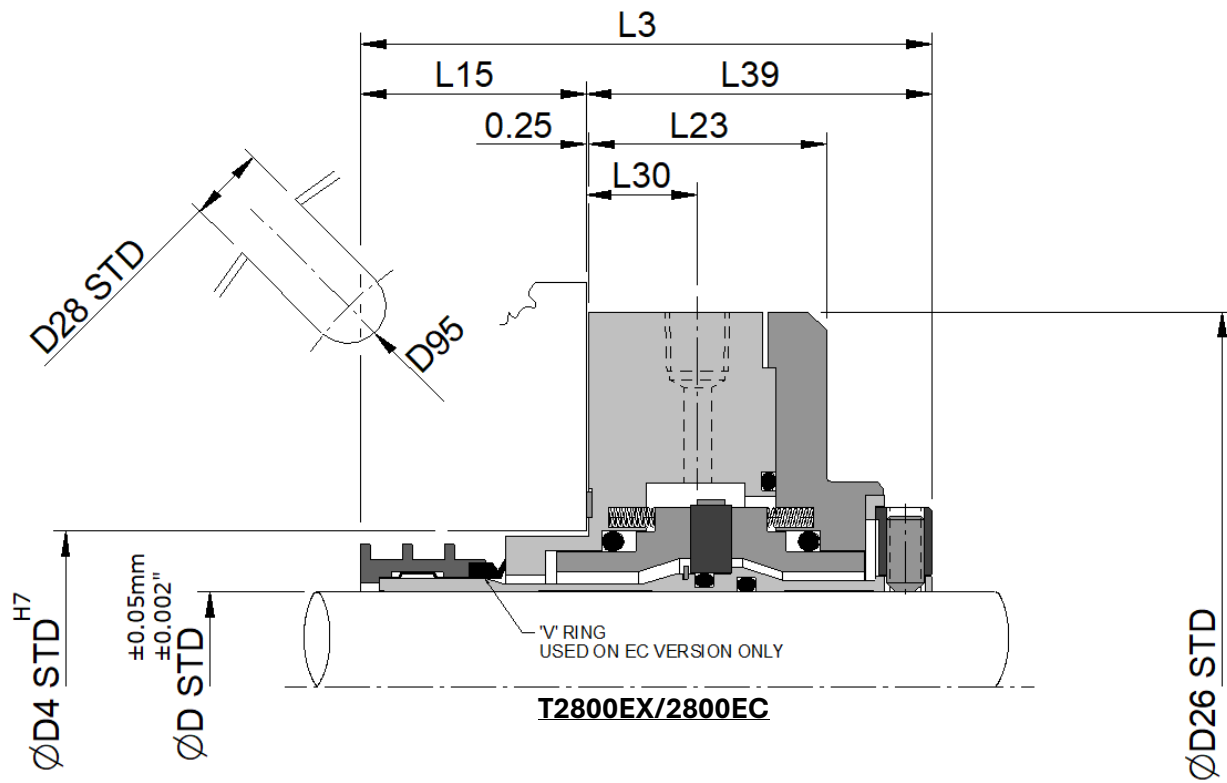
Seal size (Inches)	Seal size code	ØD	ØD4	ØD26	ØD28	ØD95	L8	L23	L30	L39
0.875	0222	0.875	1.500	3.748	0.437	2.295	2.574	1.398	0.531	2.028
1.000	0254	1.000	1.626	3.748	0.437	2.421	2.574	1.398	0.531	2.028
1.125	0285	1.125	1.752	4.252	0.437	2.469	2.574	1.398	0.531	2.028
1.250	0317	1.250	2.000	4.252	0.437	2.669	2.574	1.398	0.531	2.028
1.375	0349	1.375	2.126	4.244	0.437	2.795	2.574	1.398	0.531	2.028
1.500	0381	1.500	2.252	4.874	0.437	3.142	2.732	1.567	0.697	2.244
1.625	0412	1.625	2.374	4.500	0.437	3.268	2.732	1.567	0.697	2.244
1.750	0444	1.750	2.500	5.500	0.563	3.390	2.732	1.567	0.697	2.244
1.875	0476	1.875	2.626	5.500	0.563	3.335	2.732	1.567	0.697	2.244
2.000	0508	2.000	2.752	4.752	0.563	3.461	2.732	1.567	0.697	2.244
2.125	0539	2.125	2.874	6.004	0.689	3.768	2.732	1.567	0.697	2.244
2.250	0571	2.250	3.126	6.500	0.689	3.890	2.732	1.567	0.697	2.244
2.375	0603	2.375	3.252	6.248	0.689	4.016	2.732	1.567	0.697	2.244
2.500	0635	2.500	3.374	6.500	0.689	4.142	2.812	1.724	0.776	2.323
2.625	0666	2.625	3.626	6.500	0.689	4.268	2.812	1.724	0.776	2.323
2.750	0698	2.750	3.752	7.000	0.689	4.390	2.812	1.724	0.776	2.323
3.000	0762	3.000	4.000	7.000	0.689	4.642	2.812	1.724	0.776	2.323
3.500	0889	3.500	4.500	7.252	0.811	5.142	2.812	1.724	0.776	2.323
4.000	1016	4.000	5.000	7.252	0.811	5.642	2.812	1.724	0.776	2.323



TYPE 2800E, 2800EX & 2800EC

EXTERNALLY MOUNTED, GAS LUBRICATED,
NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification



T2800EX and T2800EC dimensions in mm - METRIC

Seal size (mm)	Seal size code	ØD		ØD4		ØD26		D28		D95	L3	L15	L23	L30	L39
		Min	Std	Std	Max	Min	Max	Min	Max						
25	0250	20	25	41	54.7	99	114	10	12	64.7	90.8	36.3	37.5	15.7	54.5
28	0280	25	28	44	57.7	102	117	10	12	67.7	90.8	36.3	37.5	15.7	54.5
30	0300	28	30	46	59.7	104	119	10	12	69.7	90.8	36.3	37.5	15.7	54.5
33	0330	30	33	49	62.7	107	122	10	14	72.7	90.8	36.3	37.5	15.7	54.5
35	0350	33	35	51	64.7	109	124	10	14	74.7	90.8	36.3	37.5	15.7	54.5
38	0380	35	38	58	69.7	118	135	10	14	79.7	92.4	36	39.8	18	56.4
40	0400	38	40	60	71.7	120	137	10	14	81.7	92.4	36	39.8	18	56.4
43	0430	40	43	63	74.7	123	140	10	14	84.7	92.4	36	39.8	18	56.4
45	0450	43	45	65	76.7	125	142	10	14	86.7	92.4	36	39.8	18	56.4
50	0500	45	50	70	81.7	130	147	14	18	91.7	92.4	36	41.8	18	56.4
53	0530	50	53	73	84.7	133	150	14	18	94.7	92.4	36	41.8	18	56.4
55	0550	53	55	75	86.7	135	152	14	18	96.7	92.4	36	41.8	18	56.4
60	0600	55	60	85	91.7	140	157	14	18	101.7	92.4	36	41.8	18	56.4
65	0650	60	65	90	96.7	145	180	14	18	106.7	94.4	36	43.8	20	58.4
80	0800	65	80	109	111.7	160	195	14	18	121.7	94.4	36	43.8	20	58.4
100	1000	80	100	129	131.7	180	215	18	22	141.7	95.4	37	43.8	20	58.4



TYPE 2800E, 2800EX & 2800EC

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EXTERNALLY MOUNTED, GAS LUBRICATED,
NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification

T2800EX and T2800EC dimensions in inches - METRIC

Seal size (inches)	Seal size code	ØD		ØD4		ØD26		D28		D95	L3	L15	L23	L30	L39
		Min	Std	Std	Max	Min	Max	Min	Max						
25	0250	0.787	0.984	1.614	2.154	3.898	4.488	0.394	0.472	2.547	3.575	1.429	1.476	0.618	2.146
28	0280	0.984	1.102	1.732	2.272	4.016	4.606	0.394	0.472	2.665	3.575	1.429	1.476	0.618	2.146
30	0300	1.102	1.181	1.811	2.350	4.094	4.685	0.394	0.472	2.744	3.575	1.429	1.476	0.618	2.146
33	0330	1.181	1.299	1.929	2.469	4.213	4.803	0.394	0.551	2.862	3.575	1.429	1.476	0.618	2.146
35	0350	1.299	1.378	2.008	2.547	4.291	4.882	0.394	0.551	2.941	3.575	1.429	1.476	0.618	2.146
38	0380	1.378	1.496	2.283	2.744	4.646	5.315	0.394	0.551	3.138	3.638	1.417	1.567	0.709	2.220
40	0400	1.496	1.575	2.362	2.823	4.724	5.394	0.394	0.551	3.217	3.638	1.417	1.567	0.709	2.220
43	0430	1.575	1.693	2.480	2.941	4.843	5.512	0.394	0.551	3.335	3.638	1.417	1.567	0.709	2.220
45	0450	1.693	1.772	2.559	3.020	4.921	5.591	0.394	0.551	3.413	3.638	1.417	1.567	0.709	2.220
50	0500	1.772	1.969	2.756	3.217	5.118	5.787	0.551	0.709	3.610	3.638	1.417	1.646	0.709	2.220
53	0530	1.969	2.087	2.874	3.335	5.236	5.906	0.551	0.709	3.728	3.638	1.417	1.646	0.709	2.220
55	0550	2.087	2.165	2.953	3.413	5.315	5.984	0.551	0.709	3.807	3.638	1.417	1.646	0.709	2.220
60	0600	2.165	2.362	3.346	3.610	5.512	6.181	0.551	0.709	4.004	3.638	1.417	1.646	0.709	2.220
65	0650	2.362	2.559	3.543	3.807	5.709	7.087	0.551	0.709	4.201	3.717	1.417	0.172	0.787	2.299
80	0800	2.559	3.150	4.291	4.398	6.299	7.677	0.551	0.709	4.791	3.717	1.417	1.724	0.787	2.299
100	1000	3.150	3.937	5.079	5.185	7.087	8.465	0.709	0.866	5.579	3.756	1.457	1.724	0.787	2.299

T2800EX and T2800EC dimensions in mm - IMPERIAL

Seal size (mm)	Seal size code	ØD		ØD4		ØD26		D28		D95	L3	L15	L23	L30	L39
		Min	Std	Std	Max	Min	Max	Min	Max						
7/8"	0222	19.05	22.23	38.1	48.3	93.1	95.2	7.93	11.1	58.3	87.7	36.6	35.5	13.7	51.5
1"	0254	22.23	25.4	41.28	51.4	-	95.2	7.93	11.1	61.5	87.7	36.6	35.5	13.7	51.5
1 1/8"	0285	25.4	28.58	44.45	52.7	98.5	108	7.93	11.1	62.7	87.7	36.6	35.5	13.7	51.5
1 1/4"	0317	28.58	31.75	50.8	57.8	102.7	108	7.93	11.1	67.8	87.7	36.6	35.5	13.7	51.5
1 3/8"	0349	31.75	34.93	53.98	61	105.8	107.8	7.93	11.1	71	87.7	36.6	35.5	13.7	51.5
1 1/2"	0381	34.93	38.1	57.15	69.8	114	123.8	7.93	11.1	79.8	92.4	36	39.8	18	57
1 5/8"	0412	38.1	41.28	60.33	73	-	114.3	7.93	11.1	83	92.4	36	39.8	18	57
1 3/4"	0444	41.28	44.45	63.5	76.1	120.4	139.7	11.1	14.27	86.1	92.4	36	39.8	18	57
1 7/8"	0476	44.45	47.63	66.68	74.7	120.5	139.7	11.1	14.27	84.7	92.4	36	39.8	18	57
2"	0508	47.63	50.8	69.85	77.9	-	120.7	11.1	14.27	87.9	92.4	36	39.8	18	57
2 1/8"	0539	50.8	53.98	73.03	85.7	129.9	152.5	14.27	17.45	95.7	92.4	36	39.8	18	57
2 1/4"	0571	53.98	57.15	79.38	88.8	133.1	165.1	14.27	17.45	98.8	92.4	36	39.8	18	57
2 3/8"	0603	57.15	60.33	82.55	92	136.2	158.7	14.27	17.45	102	92.4	36	39.8	18	57
2 1/2"	0635	60.33	63.5	85.73	95.2	139.4	165.1	14.27	17.45	105.2	94.4	36	43.8	20	59
2 5/8"	0666	63.5	66.68	92.08	98.4	142.6	165.1	14.27	17.45	108.4	94.4	36	43.8	20	59
2 3/4"	0698	66.68	69.85	95.25	101.5	145.8	177.8	14.27	17.45	111.5	94.4	36	43.8	20	59
3"	0762	69.85	76.2	101.6	107.9	152.1	177.8	14.27	17.45	117.9	94.4	36	43.8	20	59
3 1/2"	0889	76.2	88.9	114.3	120.6	164.8	184.2	14.27	20.62	130.6	94.4	36	43.8	20	59
4"	1016	88.9	101.6	127	133.3	177.5	184.2	14.27	20.62	143.3	95.4	37	43.8	20	59



TYPE 2800E, 2800EX & 2800EC

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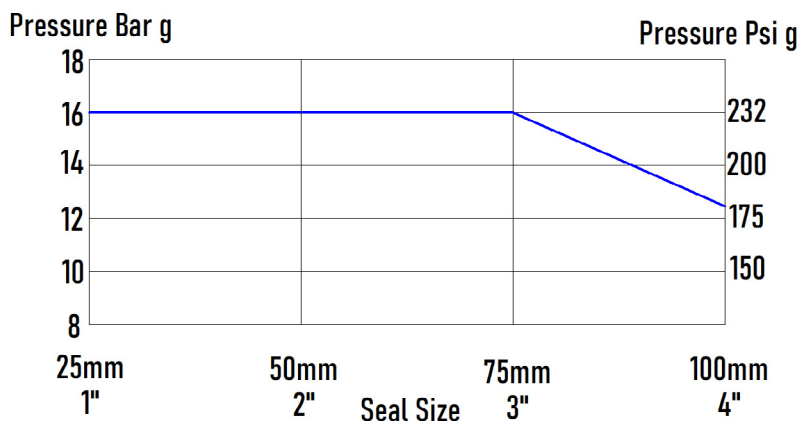
EXTERNALLY MOUNTED, GAS LUBRICATED,
NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification

T2800EX and T2800EC dimensions in inches - IMPERIAL

Seal size (inches)	Seal size code	ØD		ØD4		ØD26		D28		D95	L3	L15	L23	L30	L39
		Min	Std	Std	Max	Min	Max	Min	Max						
7/8"	0222	0.750	0.875	1.500	1.902	3.665	3.748	0.312	0.437	2.295	3.453	1.441	1.398	0.539	2.028
1"	0254	0.875	1.000	1.625	2.024	-	3.748	0.312	0.437	2.421	3.453	1.441	1.398	0.539	2.028
1 1/8"	0285	1.000	1.125	1.750	2.075	3.878	4.252	0.312	0.437	2.469	3.453	1.441	1.398	0.539	2.028
1 1/4"	0317	1.125	1.250	2.000	2.276	4.043	4.252	0.312	0.437	2.669	3.453	1.441	1.398	0.539	2.028
1 3/8"	0349	1.250	1.375	2.125	2.402	4.165	4.244	0.312	0.437	2.795	3.453	1.441	1.398	0.539	2.028
1 1/2"	0381	1.375	1.500	2.250	2.748	4.488	4.874	0.312	0.437	3.142	3.638	1.417	1.567	0.709	2.244
1 5/8"	0412	1.500	1.625	2.375	2.874	-	4.500	0.312	0.437	3.268	3.638	1.417	1.567	0.709	2.244
1 3/4"	0444	1.625	1.750	2.500	2.996	4.740	5.500	0.437	0.562	3.390	3.638	1.417	1.567	0.709	2.244
1 7/8"	0476	1.750	1.875	2.625	2.941	4.744	5.500	0.437	0.562	3.335	3.638	1.417	1.567	0.709	2.244
2"	0508	1.875	2.000	2.750	3.067	-	4.752	0.437	0.562	3.461	3.638	1.417	1.567	0.709	2.244
2 1/8"	0539	2.000	2.125	2.875	3.374	5.114	6.004	0.562	0.687	3.768	3.638	1.417	1.567	0.709	2.244
2 1/4"	0571	2.125	2.250	3.125	3.496	5.240	6.500	0.562	0.687	3.890	3.638	1.417	1.567	0.709	2.244
2 3/8"	0603	2.250	2.375	3.250	3.622	5.362	6.248	0.562	0.687	4.016	3.638	1.417	1.567	0.709	2.244
2 1/2"	0635	2.375	2.500	3.375	3.748	5.488	6.500	0.562	0.687	4.142	3.717	1.417	1.724	0.787	2.323
2 5/8"	0666	2.500	2.625	3.625	3.874	5.614	6.500	0.562	0.687	4.268	3.717	1.417	1.724	0.787	2.323
2 3/4"	0698	2.625	2.750	3.750	3.996	5.740	7.000	0.562	0.687	4.390	3.717	1.417	1.724	0.787	2.323
3"	0762	2.750	3.000	4.000	4.248	5.988	7.000	0.562	0.687	4.642	3.717	1.417	1.724	0.787	2.323
3 1/2"	0889	3.000	3.500	4.500	4.748	6.488	7.252	0.562	0.812	5.142	3.717	1.417	1.724	0.787	2.323
4"	1016	3.500	4.000	5.000	5.248	6.988	7.252	0.562	0.812	5.642	3.756	1.457	1.724	0.787	2.323

Type T2800E, 2800EC and 2800EX Pressure Limits



The basic pressure rating is based on a standard seal installed according to the criteria given in this data sheet at a minimum speed of 1450rpm, and according to generally accepted industrial practices.



TYPE 2800E, 2800EX & 2800EC

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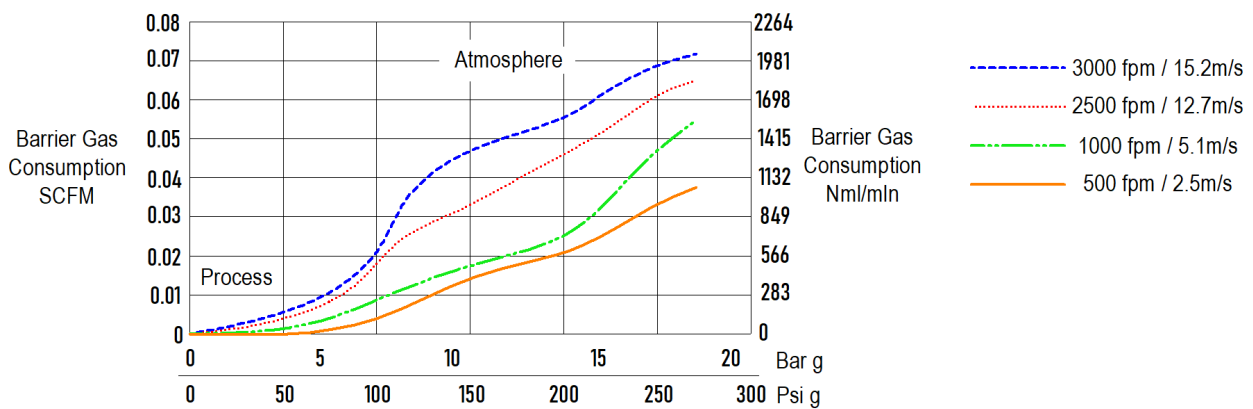
EXTERNALLY MOUNTED, GAS LUBRICATED,
NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification

Criteria installation

Shaft/Sleeve	Limits
Surface Finish	1.6µmRa/63Ra or better
Ovality / Out of Roundness (Shaft)	0.05mm/0.002"
End Play	±0.08mm/0.003"
Runout / Out of Squareness	0.051mm/0.002"
Shaft Squareness to Housing	0.08mm/0.003"

Barrier gas consumption



NOTES:

1. Data based on each seal face
2. Consumption based on ambient temperature and atmospheric pressure flow indicated by flowmeter at gas inlet is compressed gas and therefore considerably less.

$$\text{fpm} = \text{Seal Size (inches) Dia} + 0.50'' \times \text{rpm} \times 0.2618$$

3. Graph curves are to be used as a guide only and actual consumption rates vary. Consult John Crane if specific application gas consumption data is required



TYPE 2800E, 2800EX & 2800EC

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EXTERNALLY MOUNTED, GAS LUBRICATED,
NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification

Materials of construction

Seal Component	Standard	Option
Inner Gland Plate ASM Outer Gland Plate Sleeve (and pin) Drive Collar	316 Stainless Steel (0550)	Titanium (1955) Alloy C276 (0690)
Primary Rings x2 (See note 1)	Antimony Impregnated Carbon (9048)	Ni-Cr Impregnated Carbon (9060)*
Primary Ring O-Rings x2 Mating Ring O-Ring Sleeve O-Ring Gland Plate O-Ring	Nitrile (9501)	Fluoroelastomer (9549) Low Temp Perfluoroelastomer (9579) High Temp Perfluoroelastomer (9580)
Primary Ring Pins	18/8 Stainless Steel (0500)	Titanium (1955) Alloy C276 (0690)
Mating Ring (TA/TC) Mating Ring (TL/TR) Mating Ring (TE)	Ni Bonded Tungsten Carbide (9205)	Self-Sintered Silicon Carbide (9221) Stainless Steel Banded Silicon Carbide (9868) Stainless Steel Banded Tungsten Carbide (8469)
Retaining Ring (See note 2)	18/8 Stainless Steel (0500)	Titanium (1955) Hastelloy (8401)
Springs	316 Stainless Steel (0550)	-
Gasket	Glass Filled PTFE (7510)	-
Cap Head Screws Socket Setscrews	316 Stainless Steel (0550)	High Tensile Steel (0225)
Setting Ring	PTFE (7500)	-
Spacers	Aluminium (2811)	-
Expeller	316 Stainless Steel (0550)	Titanium (1955) Alloy C276 (0690)
Tolerance Strip	Alloy C276 (0690)	-
V-ring (EC version only)	Low Temp Perfluoroelastomer (3729)	-

* For FDA Requirement Only

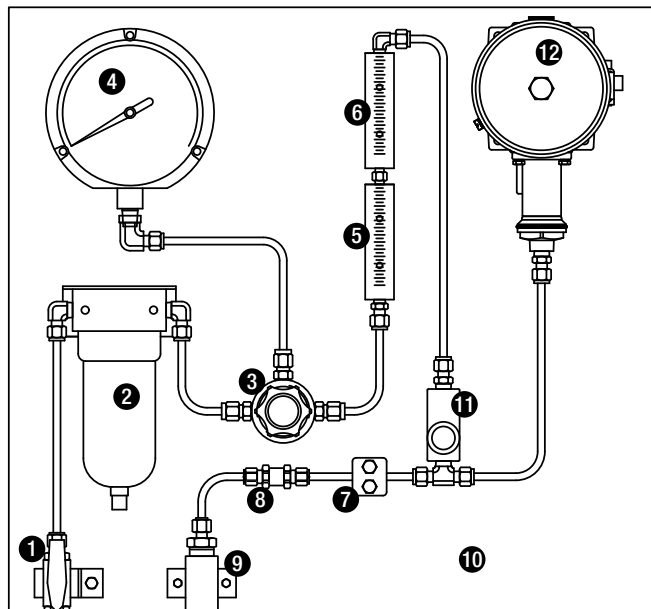


TYPE 2800E, 2800EX & 2800EC

EXTERNALLY MOUNTED, GAS LUBRICATED,
NON-CONTACTING DOUBLE CARTRIDGE SEAL

Technical Specification

Barrier gas supply systems



Standard components

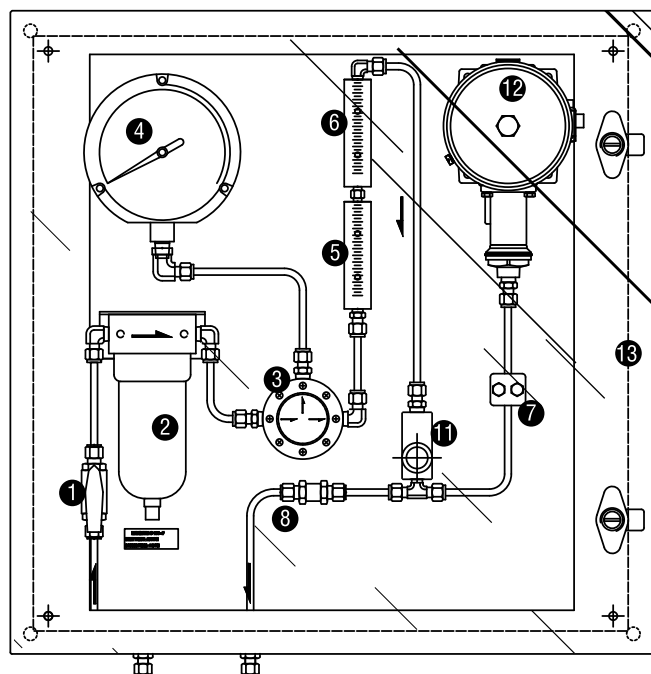
- 1 Isolating ball valve
- 2 Coalescing filter
- 3 Pressure regulator
- 4 Pressure gauge
- 5 Flow meter (low range)
- 6 Flow Meter (high range)
- 7 Tubing clamp
- 8 Check valve
- 9 Coupling (to seal piping)
- 10 Back panel

Options

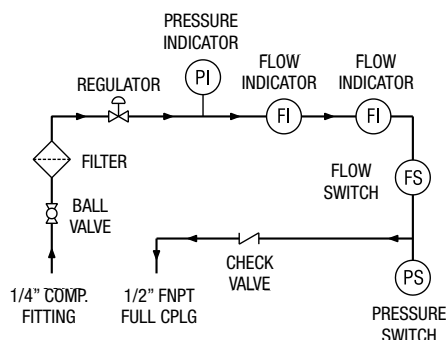
- 11 Flow switch
- 12 Pressure switch
- 13 Enclosure
 - Isolast™ and Kalrez® for the check valve seat material
 - Stand
 - Enclosures are also available in a NEMA 4X Enclosure (as shown)
 - Gas amplifier/booster systems
 - Pressure tracking regulators

Available from John Crane in both standard tamper proof enclosure and panel mounted designs.

Further application information is available from John Crane.



GAS FLOW SCHEMATIC



North America
United States of America
Tel: 1-847-967-2400

Europe
United Kingdom
Tel: 44-1753-224002

Latin America
Brazil
Tel: 55-11-3371-2500

Middle East & Africa
United Arab Emirates
Tel: 971-481-27800

Asia Pacific
Singapore
Tel: 65-6518-1800

If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use. In the interest of continuous development, John Crane Companies reserve the right to alter designs and specifications without prior notice. It is dangerous to smoke while handling products made from PTFE. Old and new PTFE products must not be incinerated. ISO 9001 and ISO14001 Certified, details available on request.