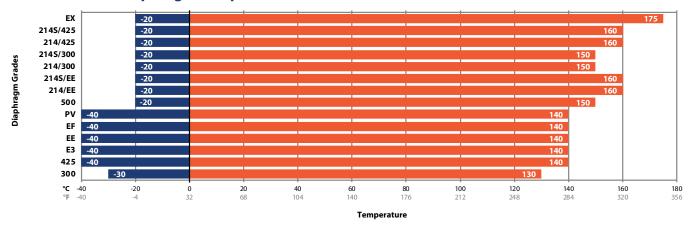


Saunders[®] HC4 Diaphragm Valve Performance (Pressure/Temperature Relationships)

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Although there are many aspects of a process specification that can affect both valve and diaphragm life, temperature and pressure are the major limiting factors of valve operating capability It is therefore essential to provide the fullest process and operating details such as operating cycles, speed of temperature fluctuations, sterilising fluids, steam sterilisation temperatures or any other parameter that may be present, when selecting a valve.

Temperature bands for diaphragms are shown as a guide only. Many aspects of service conditions will determine the highest working temperature.



Saunders® HC4 Diaphragm Temperatures



Crane ChemPharma & Energy



Saunders[®] 2-Way Forgings

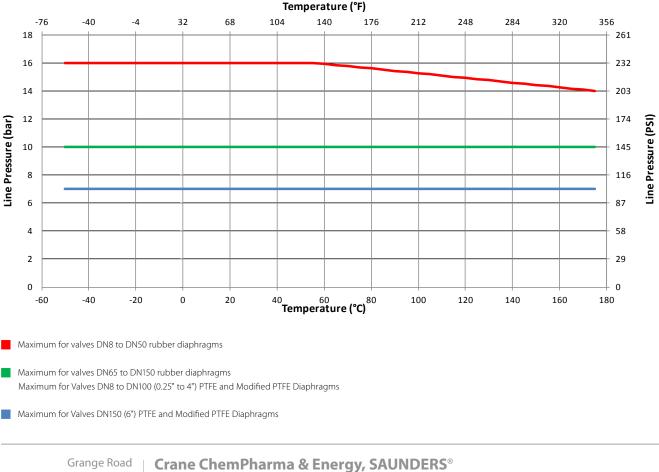
Valve Size	DN	8	10	15	20	25	40	50	65	80	100	125	150
	SAE	0.250"	0.375"	0.500"	0.750"	1.000"	1.500"	2.000"	2.500"	3.000"	4.000"	5.000"	6.000"
	Steam Grade 214S/425	16	16	16	16	16	16	16	10	10	10	10	7
	(PTFE (TFM) / EPM)	(232)	(232)	(232)	(232)	(232)	(232)	(232)	(145)	(145)	(145)	(145)	(101.5)
Diaphragm	All Rubber/Elastomer	16	16	16	16	16	16	16	10	10	10	10	10
Туре	Types	(232)	(232)	(232)	(232)	(232)	(232)	(232)	(145)	(145)	(145)	(145)	(145)
	All Other DTEE Tunes	10	10	10	10	10	10	10	10	10	10	10	7
	All Other PTFE Types	(145)	(145)	(145)	(145)	(145)	(145)	(145)	(145)	(145)	(145)	(145)	(101.5)

Maximum Rated Working Pressure (Manual Valves)

For sizing automated valves, please refer to the relevant actuator datasheet (S360 & EC Actuator)

Valve Body Temperature / Pressure Relationships

The chart displays the temperature/pressure operating performance for manual operated valves, in accordance with BS EN 1092. It is used to ensure that the pipeline pressure and temperature subjected to the valve during service are within the valve safe working capacity.



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Pressure / Temperatur	e Equivalent (for Saturated Steam only)
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	Gauge Pi	Approx. Temperature			
ib/in2 (PSI)	Kg/cm2	bar	kPa	°	°F
0	0.0	0.0	0.0	100	212
5	0.4	0.3	34.5	109	227
10	0.7	0.7	68.9	115	239
15	1.1	1.0	103.4	121	250
20	1.4	1.4	137.9	126	259
25	1.8	1.7	172.4	131	267
30	2.1	2.1	206.8	135	274
35	2.5	2.4	241.3	138	281
40	2.8	2.8	275.8	142	281
45	3.2	3.1	310.3	145	292
50	3.5	3.4	344.7	148	298
55	3.9	3.8	379.2	150	303
60	4.2	4.1	413.7	153	307
65	4.6	4.5	448.2	156	312
70	4.9	4.8	482.6	158	316
75	5.3	5.2	517.1	160	320
80	5.6	5.5	551.6	162	324
85	6.0	5.9	586.1	164	328
90	6.3	6.2	620.5	166	331
95	6.7	6.6	655.0	168	335
100	7.0	6.9	689.5	170	338
110	7.7	7.6	758.4	173	344
120	8.4	8.3	827.4	177	350
130	9.1	9.0	896.3	180	356
140	9.8	9.7	965.3	183	361
150	10.5	10.3	1034.2	186	366

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