

Saunders

Maximum Rated Working Pressures –
Type KB and K Valves

Industrial
Diaphragm Valves

Maximum recommended working pressure stated below is for manual valves, defined as the maximum line pressure against which valves may be operated to closed position up to and including 55 °C.

For ES actuators, please refer to appropriate actuator performance selection technical data sheets.

Maximum Rated Working Pressures [in bar (psi)]

Type KB Valves

Size	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
		½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"
Non-rising handwheel		-	-	-	-	-	-	-	-	-	-	-	3.5 (50)	3.5 (50)	3.5 (50)	1.5 (22)
Rising handwheel		10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	6 (87)	6 (87)	-	-	-	-
Rising spindle		7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	6 (87)	3.5 (50)	3.5 (50)	3.5 (50)	-	-
Sliding spindle*		10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	10 (150)	6 (87)	6 (87)	3.5 (50)	3.5 (50)	3.5 (50)	1.5 (22)

* Maximum Rated Working Pressure is dependent on customer's actuator selection

Type K Valves

Size	DN	40	50	65	80	100	125	150	200	250	300
		1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"
Non-rising handwheel		-	-	-	-	-	-	3.5 (50)	3.5 (50)	3.5 (50)	1.5 (22)
Rising handwheel		7 (100)	7 (100)	7 (100)	7 (100)	3.5 (50)	3.5 (50)	-	-	-	-

G	System-Key					Aggregate/Part					
0	0	H	T	J	3	9	A	A	0	0	1
Project-Key		page		from pages		K	Ind				
Y	E	N	0	0	1	0	0	2	Y		

Dok-No.:

 Alfa Laval

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2/KB/005/UK/Rev1

Flow coefficients – Type 'KB' Valves (DN80-DN200)

DN 80						
Body material/ lining	Cast iron		Rubber Lined		Glass/Halar	
	Cv	Kv	Cv	Kv	Cv	Kv
% open						
100	330	293	264	226	342	293
90	307	263	246	211	318	273
80	281	241	224	192	291	249
70	254	218	203	174	263	225
60	231	198	185	159	239	205
50	198	170	159	136	205	176
40	165	141	132	113	171	146
30	122	105	98	84	127	109
20	79	68	63	54	82	70
10	40	34	32	27	41	35
0	0	0	0	0	0	0

DN 100						
Body material/ lining	Cast iron		Rubber Lined		Glass/Halar	
	Cv	Kv	Cv	Kv	Cv	Kv
% open						
100	588	504	480	411	618	528
90	547	469	446	382	575	493
80	500	429	408	350	525	450
70	453	388	370	317	476	408
60	412	353	336	288	433	371
50	353	303	288	247	371	318
40	294	252	240	206	309	265
30	218	187	178	153	229	196
20	141	121	115	99	148	127
10	71	61	58	50	74	63
0	0	0	0	0	0	0

DN 125						
Body material/ lining	Cast iron		Rubber Lined		Glass/Halar	
	Cv	Kv	Cv	Kv	Cv	Kv
% open						
100	924	792	720	617	960	823
90	859	736	670	574	893	765
80	785	673	612	525	816	699
70	711	609	554	475	739	633
60	647	555	504	432	672	576
50	555	475	432	370	576	494
40	462	396	360	309	460	411
30	342	293	266	228	355	304
20	222	190	173	148	230	197
10	111	95	86	74	115	99
0	0	0	0	0	0	0

DN 150						
Body material/ lining	Cast iron		Rubber Lined		Glass/Halar	
	Cv	Kv	Cv	Kv	Cv	Kv
% open						
100	1680	1440	1260	1080	1800	1543
90	1562	1339	1172	1005	1674	1435
80	1428	1224	1071	918	1530	1311
70	1294	1109	970	831	1386	1188
60	1176	1008	882	756	1260	1080
50	1008	864	756	647	1080	926
40	840	720	630	540	900	771
30	622	533	466	399	666	571
20	403	345	302	259	432	370
10	202	173	151	129	216	185
0	0	0	0	0	0	0

DN 200						
Body material/ lining	Cast iron		Rubber Lined		Glass/Halar	
	Cv	Kv	Cv	Kv	Cv	Kv
% open						
100	2580	2211	2196	1882	2724	2335
90	2399	2056	2042	1750	2533	2171
80	2193	1880	1867	1600	2315	1985
70	1987	1703	1691	1449	2097	1797
60	1806	1548	1537	1318	1907	1634
50	1548	1327	1318	1130	1634	1401
40	1290	1106	1098	941	1362	1167
30	955	819	813	697	1008	864
20	619	531	527	452	653	560
10	310	266	264	226	327	280
0	0	0	0	0	0	0

Note: Differing Cv & Kv rating can be derived, depending on the method used for testing. The tables above are based on British Standards 1042 and EN 60531/IEC 534.2.3 and show flow in US gallons per minute and cubic metres per hour.



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Due to constant product improvements, details shown on this data sheet are subject to change.