



Safety Valves (full lift and pilot controlled)

P654

All KAMAT safety valves are full-lift valves and available as a single or pilot-controlled version for more flow. All valves are factory-set for the pressure indicated by the customer and lead-sealed prior to delivery. On the housing for single valve versions a rotating bypass connection is installed to drain the leakage medium. The pilot-controlled valves are supplied with fixed by-pass connections. To install the pilot-controlled safety valves mounting blocks are required. All safety valves are spring loaded.

Picture	Maximum Pressure PSI (bar)	Maximum Flow GPM (L/min)	ID	Discharge Connection	Bypass	Weight	Part No. NBR	Part No. Viton
	52,214 (3600)	52.8 (200)	4 HP	M 26x1.5 autoclave	1" BSP	10.3 (4.65)	7035537	xxx
	29,000 (2000)	105.7 (400)	5 HP	M 26x1.5 autoclave	1" BSP	10.3 (4.65)	7035824	xxx
	25,382 (1750)	99.1 (375)	5.5	M22x1.5	1" BSP	9.5 (4.30)	7035825	xxx
	25,382 (1750)	99.1 (375)		M30x1.5	1-1/2" BSP	10.6 (4.80)	7035829	xxx
	13,053 (900)	145.3 (550)	7.5	M22x1.5	1" BSP	9.5 (4.30)	7035826	xxx
	13,053 (900)	145.3 (550)		M30x1.5	1-1/2" BSP	10.6 (4.80)	7035830	xxx
	7542 (520)	184.9 (700)	10	M30x1.5	1-1/2" BSP	10.6 (4.80)	7035827	xxx
	4351 (300)	211.3 (800)	12	M22x1.5	1" BSP	9.5 (4.30)	7035828	xxx
Picture	Maximum Pressure PSI (bar)	Maximum Flow GPM (L/min)	ID	Discharge Connection see mouting block	Bypass	Func- tion	Part No. NBR	Part No. Viton
	21,030 (1450)	< 383 (< 1450)	16 PC		1x 1" SAE 6000 PSI	48.5 (22)	7035403	7033417
	5800 (400)	< 515 (< 1950)	32 PC		1x 2" SAE 3000 PSI	48.5 (22)	7035384	7035453
	725 (50)						7035452	7033418
	5800 (400)	> 515 (> 1950)	50 PC		1x 2-1/2" SAE 3000 PSI	83.8 (38)	7035417	7033419

PC=Pilot Controlled

Further safety valves available on request.

Pump Specifications

K4500			Pressure at specific power inputs								Pump Head Style		
Type	FLOW		29 HP	22 kW	40 HP	30 kW	50 HP	37 kW	60 HP	45 kW	A	M	MC
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI	bar			
4510	2.1	8	22119	1525	30095	2075	37130	2560	43511	3000	1		
4512	2.9	11	15374	1060	20958	1445	25817	1780	30820	2125	1		
4514	4	15	11240	775	15374	1060	18928	1305	22625	1560	1		
4516	5.3	20	8630	595	11748	810	14500	1000	17332	1195	1		
4518	6.6	25	6817	470	9283	640	11458	490	13706	945	2	1	
4520	8.2	31	5512	380	7542	520	9282	640	11095	765	2	1	
4522	9.8	37	4569	315	6237	430	7687	530	9135	630	2	1	
4524	11.6	44	3844	265	5221	360	6454	445	7687	530	2	1	
4526	13.7	52	3263	225	4424	305	5511	380	6527	450	2	1	
4528	15.9	60	2828	195	3844	265	4714	325	5657	390	2	1	
4530	18.2	69	2466	170	3335	230	4133	285	4930	340	2		1
4532	20.6	78	2175	150	2973	205	3625	250	4351	300	2		1
4536	26.2	99	1740	120	2320	160	2900	200	3408	235			1
4540	32.2	122	1378	95	1885	130	2320	160	2755	190			1
4545	41	155	1088	75	1523	105	1813	125	2175	150			1
4550	50.5	191	870	60	1233	85	1450	100	1740	120			1
4555	61.3	232	725	50	1015	70	1233	85	1450	100			1

K9000			Pressure at specific power inputs								Pump Head Style		
Type	FLOW		61 HP	45 kW	74 HP	55 kW	100 HP	75 kW	121 HP	90 kW	A	M	MC
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI	bar			
8010	2.4	9	36985	2550	45180	3115	49241	3395	45543	3140	1		
8012	3.4	13	25672	1770	31329	2160	34229	2360	42787	2950	1		
8014	4.8	18	18855	1300	23061	1590	25164	1735	31404	2165	1		
8016	6.3	24	14431	995	17622	1215	19218	1325	24077	1660	1		
8018	7.9	30	11386	785	13924	960	15229	1050	19000	1310	2		
8020	9.8	37	9210	635	11313	780	12328	850	15734	1060	2		
8022	11.9	45	7615	525	9355	645	10153	700	12691	875	2	1	
8024	14.3	54	6382	440	7832	540	8557	590	10660	735	2	1	
8026	16.6	63	5439	375	6672	460	7325	505	9138	630	2	1	
8028	19.3	73	4714	325	5729	395	6309	435	7832	540	2	1	
8030	22.2	84	4134	285	5004	345	5439	375	6817	470	2		1
8032	25.4	96	3626	250	4424	305	4786	330	6019	415	2		1
8036	32.0	121	2828	195	3481	240	3771	260	4786	330			1
8040	39.6	150	2321	160	2828	195	3046	210	3844	265			1
8045	50.2	190	1813	125	2248	155	2466	170	3046	210			1
8050	61.8	234	1450	100	1813	125	1958	135	2466	170			1
8055	74.8	283	1233	85	1523	105	1595	110	2031	140			1

K9000			Pressure at specific power inputs								Pump Head Style		
Type	FLOW		61 HP	45 kW	74 HP	55 kW	100 HP	75 kW	121 HP	90 kW	A	M	MC
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI	bar			
9012	3.4	13	25672	1770	31329	2160	42787	2950	45543	3140			
9014	4.8	18	18855	1300	23061	1590	31401	2165	33432	2305	1		
9016	6.3	24	14431	995	17622	1215	24077	1660	25600	1765	1		
9018	7.9	30	11386	785	13924	960	19000	1310	20233	1395	2		
9020	9.8	37	9210	635	11313	780	15734	1060	16390	1130	2		
9022	11.9	45	7615	525	9355	645	12691	875	13561	935	2	1	
9024	14.3	54	6382	440	7832	540	10660	735	11386	785	2	1	
9026	16.6	63	5439	375	6672	460	9138	630	9718	670	2	1	
9028	19.3	73	4714	325	5729	395	7832	540	8340	575	2	1	
9030	22.2	84	4134	285	5004	345	6817	470	7252	500	2		1
9032	25.4	96	3626	250	4424	305	6019	415	6382	440	2		1
9036	32.0	121	2828	195	3481	240	4786	330	5076	350			1
9040	39.6	150	2321	160	2828	195	3844	265	4134	285			1
9045	50.2	190	1813	125	2248	155	3046	210	3263	225			1
9050	61.8	234	1450	100	1813	125	2466	170	2611	180			1
9055	74.8	283	1233	85	1523	105	2031	140	2176	150			1

K11000			Pressure at specific power inputs								Pump Head Style		
Type	FLOW		80 HP	60 kW	101 HP	75 kW	121 HP	90 kW	147 HP	110 kW	A	M	MC
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI	bar			
11014	5.6	21	21901	1510	27340	1885	32852	2265	38653	2665	1		
11016	7.4	28	16752	1155	20958	1445	25092	1730	29588	2040	1		
11018	9.2	35	13199	910	16535	1140	19870	1370	23351	1610	1		
11020	11.4	43	10733	740	13416	925	16099	1110	18928	1305	2		
11022	13.7	52	8847	610	11096	765	13271	915	15664	1080	2		
11024	16.4	62	7470	515	9283	640	11168	770	13126	905	2	1	
11026	19.3	73	6309	435	7905	545	9500	655	11241	775	2	1	
11028	22.2	84	5439	375	6817	470	8195	565	9645	665	2	1	
11030	25.6	97	4786	330	5947	410	7179	495	8412	580	2	1	
11032	29.1	110	4206	290	5221	360	6309	435	7397	510	2		1
11036	36.7	139	3336	230	4134	285	4931	340	5874	405	2		1
11040	45.4	172	2683	185	3336	230	3989	275	4714	325			1
11045	57.6	218	2103	145	2611	180	3191	220	3771	260			1
11050	71.1	269	1740	120	2176	150	2538	175	3046	210			1
11055	85.9	325	1450	100	1740	120	2103	145	2538	175			1
11060	102.2	387	1160	80	1523	105	1813	125	2103	145			1
11065	119.9	454	1015	70	1233	85	1523	105	1813	125			1

K18000		Pressure at specific power inputs									Pump Head Style		
Type	FLOW		147 HP	110 kW	177 HP	132 kW	215 HP	160 kW	241 HP	180 kW	A	M	MC
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI	bar			
18014	6.3	24	34882	2405	41844	2885	50764	3500	-	-	1		
18016	8.5	32	26687	1840	32054	2210	38871	2680	43294	2985	1		
18018	10.6	40	21103	1455	25309	1745	30676	2115	34229	2360	1		
18020	12.9	49	17115	1180	20523	1415	24874	1715	27703	1910	1		
18022	15.9	60	14141	975	16970	1170	20523	1415	22916	1580	2		
18024	18.8	71	11893	820	14214	980	17260	1190	19218	1325	2		
18026	22.2	84	10153	700	12111	835	14722	1015	16390	1130	2		
18028	25.6	97	8702	600	10443	720	12691	875	14141	975	2	1	
18030	29.3	111	7615	525	9138	630	11023	760	12328	850	2	1	
18032	33.6	127	6672	460	8050	555	9718	670	10805	745	2	1	
18036	42.3	160	5294	365	6309	435	7687	530	8557	590	2		1
18040	52.3	198	4279	295	5149	355	6237	430	6962	480			1
18045	66.1	250	3408	235	4061	280	4931	340	5439	375			1
18050	81.6	309	2756	190	3263	225	3989	275	4424	305			1
18055	98.8	374	2248	155	2683	185	3263	225	3699	255			1
18060	117.6	445	1886	130	2248	155	2756	190	3046	210			1
18065	137.9	522	1595	110	1958	135	2321	160	2611	180			1

Pump Specifications

K25000		Pressure at specific power inputs									Pump Head Style		
Type	FLOW	177 HP	132 kW	215 HP	160 kW	268 HP	200 kW	335 HP	250 kW	A	M	MC	
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI				
25018	10.8	41	24657	1700	29870	2060	37348	2575	46195	3185	1		
25020	13.5	51	19943	1375	24149	1665	30241	2085	37420	2580	1		
25022	16.4	62	16462	1135	20016	1380	24947	1720	30894	2130	1		
25024	19.3	73	13851	955	16825	1160	20958	1445	25962	1790	1		
25026	22.7	86	11821	815	14286	985	17912	1235	22119	1525	2		
25028	26.4	100	10153	700	12328	850	15447	1065	19073	1315	2		
25030	30.1	114	8847	610	10733	740	13416	925	16607	1145	2		
25032	34.3	130	7760	535	9428	650	11821	815	14649	1010	2	1	
25036	43.6	165	6164	425	7470	515	9355	645	11531	795	2	1	
25040	53.6	203	5004	345	6019	415	7542	520	9355	645	2	1	
25045	68.2	258	3916	270	4786	330	5947	410	7397	510	2	1	
25050	84.0	318	3191	220	3844	265	4859	335	6019	415	2	1	
25055	101.7	385	3611	180	3191	220	3989	275	4931	340		1	
25060	121.0	458	2248	155	2683	185	3336	230	4134	285		1	
25065	141.9	537	1886	130	2320	160	2828	195	3553	245		1	
25070	164.6	623	1595	110	1958	135	2466	170	3046	210		1	
25075	188.9	715	1450	100	1740	120	2176	150	2683	185		1	
25085	242.8	919	1088	75	1305	90	1668	115	2103	145		1	
25095	303.3	1148	870	60	1088	75	1305	90	1668	115		1	

K45000		Pressure at specific power inputs									Pump Head Style		
Type	FLOW		422 HP	315 kW	442 HP	330 kW	469 HP	350 kW	536 HP	400 kW	A	M	MC
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI	bar			
45020	15.3	58	41699	2875	46340	3195	50764	3500	-----	-----	1		
45022	18.5	70	34520	2380	38291	2640	43802	3020	49241	3395	1		
45024	22.2	84	29008	2000	32199	2220	36768	2535	41409	2855	1		
45026	25.9	98	24657	1700	27413	1890	31329	2160	35245	2430	1		
45028	30.1	114	21321	1470	23642	1630	27050	1865	30386	2095	1		
45030	34.6	131	18565	1280	20596	1420	23569	1625	26470	1825	1		
45032	39.4	149	16317	1125	18130	1250	20668	1425	23279	1605	1		
45036	49.7	188	12909	890	14286	985	16390	1130	18420	1270	2		
45040	61.3	232	10443	720	11603	800	13271	915	14939	1030	2	1	
45045	77.7	294	8267	570	9138	630	10443	720	11748	810	2	1	
45050	95.9	363	6675	460	7397	510	8485	585	9573	660	2	1	
45055	116.0	439	5512	380	6164	425	7034	485	7905	545		1	
45060	137.9	522	4641	320	5149	355	5874	405	6599	455		1	
45065	162.0	613	3916	270	4424	305	5004	345	5657	390		1	
45070	187.8	711	3408	235	3771	260	4351	300	4859	335			1
45075	215.6	816	2973	205	3263	225	3771	260	4206	290			1
45085	276.9	1048	2321	160	2538	175	2901	200	3336	230			1
45095	345.8	1309	1886	130	2031	140	2321	160	2611	180			1

K55000			Pressure at specific power inputs								Pump Head Style		
Type	FLOW		536 HP	400 kW	604 HP	450 kW	671 HP	500 kW	738 HP	550 kW	A	M	MC
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI	bar			
55018	18.2	69	44745	3085	50401	3475	50764	3500	-----	-----	1		
55020	22.5	85	36260	2500	40829	2815	45325	3125	49894	3440	1		
55022	27.2	103	29951	2065	33722	2325	37493	2585	41191	2840	1		
55024	32.2	122	25164	1735	28355	1955	31474	2170	34665	2390	1		
55026	37.8	143	21466	1480	24149	1665	26832	1850	29516	2035	1		
55028	43.9	166	18493	1275	20813	1435	23134	1595	25455	1755	1		
55030	50.5	191	16099	1110	18130	1250	20161	1390	22191	1530	2		
55032	57.3	217	14141	975	15954	1100	17695	1220	19508	1345	2		
55036	72.7	275	11168	770	12618	870	13996	965	15374	1060	2	1	
55040	89.6	339	9065	625	10225	705	11313	780	12473	860	2	1	
55045	113.3	429	7179	495	8050	555	8920	615	9863	680	2	1	
55050	140.0	530	5802	400	6527	450	7252	500	7977	550	2	1	
55055	169.4	641	4786	330	5366	370	6019	415	6599	455		1	
55060	201.6	763	4061	280	4569	315	5004	345	5512	380		1	
55065	236.4	895	3408	235	3844	265	4279	295	4714	325		1	
55070	274.5	1039	2973	205	3336	230	3699	255	4061	280			1
55075	314.9	1192	2611	180	2901	200	3191	220	3553	245			1
55085	404.5	1531	2031	140	2248	155	2538	175	2756	190			1
55090	453.6	1717	1813	125	2031	140	2248	155	2466	170			1
55095	505.4	1913	1595	110	1813	125	2031	140	2176	150			1

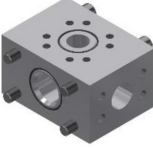
K100000		Pressure at specific power inputs								Pump Head Style		
Type	FLOW	845 HP	630 kW	952 HP	710 kW	1073 HP	800 kW	1341 HP	1000 kW	A1	M	MC1
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI	bar		
111022	30.9	117	41409	2855	46630	3215	50764	3500	-----	-----	1	
100024	36.7	139	34810	2400	39161	2700	44165	3045	50764	3500	1	
100026	43.1	163	29661	2045	33359	2300	37638	2595	47065	3245	1	
100028	50.2	190	25527	1760	28790	1985	32416	2235	40539	2795	1	
100032	65.5	248	19980	1350	22046	1520	24874	1715	31039	2140	1	
100036	82.7	313	15447	1065	17405	1200	19653	1355	24512	1690	1	
100040	102.2	387	12546	865	14141	975	15882	1095	19870	1370	2	
100045	129.5	490	9863	680	11168	770	12546	865	15737	1085	2	1
100050	159.6	604	7977	550	9065	625	10153	700	12691	875	2	1
100055	193.1	731	6599	455	7470	515	8412	580	10515	725		1
100060	229.9	870	5584	385	6237	530	7034	485	8847	610		1
100065	270.0	1022	4714	325	5366	370	6019	415	7542	520		1
100070	313.1	1185	4061	280	4641	320	5221	360	6454	445		1
100075	359.3	1360	3553	245	3989	275	4496	310	5657	390		1
100080	408.7	1547	3118	215	3553	245	3989	275	5004	345		1
100085	461.6	1747	2756	190	3118	215	3553	245	4424	305		1
100090	517.3	1958	2466	170	2756	190	3118	215	3906	270		1
100095	576.5	2182	2248	155	2466	170	2828	195	3553	245		1
100100	638.8	2418	2031	140	2248	155	2538	175	3191	220		2
100110	773.0	2926	1668	115	1886	130	2103	145	2611	180		2
100120	919.9	3482	1378	95	1595	110	1740	120	2176	150		2

K150000		Pressure at specific power inputs									Pump Head Style		
Type	FLOW	1006 HP	750 kW	1341 HP	1000 kW	1676 HP	1250 kW	2012 HP	1500 kW	A	M	M2	
	GPM	L/min	PSI	bar	PSI	bar	PSI	bar	PSI				
150028	49.4	187	30821	2125	50764	3500	50764	3500	-----	-----	1		
150030	56.8	215	26832	1850	44745	3085	44745	3085	50764	3500	1		
150032	64.5	244	23569	1625	39306	2710	39306	2710	46340	3195	1		
150036	81.6	309	18638	1285	31039	2140	31039	2140	36623	2525	1		
150040	100.9	382	15084	1040	25164	1735	25164	1735	29661	2045	1		
150045	127.6	483	11966	825	19871	1370	19870	1370	23424*	1615*	1		
150050	157.7	497	9645	665	16099	1110	16099	1110	19000	1310	2		
150055	190.7	722	7977	550	13344	920	13344	920	15664	1080	2		
150060	226.9	859	6744	465	11168	770	11168	770	13199	910	2	1	
150065	266.3	1008	5729	395	9500	655	9500	655	11241	775	2	1	
150070	308.8	1169	4931	340	8199	565	8195	565	9718	670	2	1	
150075	354.5	1342	4279	295	7175	495	7179	495	8412	580	2	1	
150080	403.4	1527	3771	260	6309	435	6309	435	7397	510		1	
150085	454.5	1724	3336	230	5584	385	5584	385	6599	455		1	
150090	510.7	1933	2973	205	5004	345	5004	345	5874	405		1	
150095	569.0	2154	2683	185	4496	310	4496	310	5294	365		1	
150100	630.3	2386	2393	165	4061	280	4061	280	4714	325		2	
150110	762.9	2888	2031	140	3336	230	3336	230	3916	270		2	
150120	833.7	3156	1813	125	3046	210	3046	210	3626	250		2	
150130	907.7	3436	1668	115	2828	195	2828	195	3263	225		2	
150140	1235.5	4677	1233	85	2031	140	2031	140	2393	165		2	

SAFETY VALVES (full-tilt & pilot controlled)

Mounting block for safety valves (pilot controlled)

Required adapter flange complete for pilot-controlled safety valves

Picture	for Pump Type	Discharge Connection	for SV ID 16 < 383 GPM (1450 L/min)	for SV ID 32 < 515 GPM (1950 L/min)	for SV ID 50 > 515 GPM (1950 L/min)	Part No.
						with connection for pressure gauge
	K25000M1-3G	M30 x 1.5	X	X	----	7035437
	K25000M21-3G	2 x 2" SAE 6000 PSI	X	X	----	7035435
	K45000M21-3G	2 x 2" SAE 6000 PSI	----	X	----	7035435
	K55000M1-5G	2 x 1-1/4" SAE 6000 PSI	----	X	----	7035439
	K55000M21-5G	2 x 2" SAE 6000 PSI	----	X	----	7035445
	K100000A2-5G	2 x M30 x 1.5 IG	X	----	----	7035443
	K100000M1-5G	2 x M30 x 1.5 IG	X	X	----	7035443
	K100000M1-5G	2 x 2" SAE 6000 PSI	X	X	----	7035435
	K100000M21-5G	2 x 2-1/2" SAE 6000 PSI	----	X	X	7035447
	K100000M22-5G	2 x 2-1/2" SAE 6000 PSI	----	----	X	7035447
	K150000A2-5G	2 x M30 x 1.5 IG	X	----	----	N/A
	K150000M1-5G	2 x M30 x 1.5 IG	X	----	----	N/A
	K150000M21-5G	2 x 2-1/2" SAE 6000 PSI	----	X	X	7035447
	K150000M22-5G	2 x 2-1/2" SAE 6000 PSI	----	----	X	7035447



WARNING: This product might contain a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov

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