

SIEMENS



International Catalog 2019

Control Products & Systems OEM – Burner Components

SIEMENS

Part 1 - Alphabetical List (order information)

Order #	Data Sheet #		Type	Last Order	Order multiple*
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*Differing order multiples should be discussed with your SIEMENS contact.

4...

418610960	7714		418610960	30.11.2023	50
418688060	7714		418688060	30.11.2023	50
419988060	7713 / 7712		419988060		50
424114620	7714		424114620	30.11.2023	50
424116000	7714		424116000	30.11.2023	50
424188550	7712 / 7713		424188550		50
424188980	7712 / 7713		424188980		50
428614900	7714		428614900	30.11.2023	50

A...

ACS...					
ACS410	7614		ACS410		1
ACS411	7866		ACS411		1

AGA...					
S55851-Z301-A100	7643		AGA21		1
AGA22	7643		AGA22		1
AGA23	7643		AGA23		1
AGA25.2	7643		AGA25.2		1
S55851-Z302-A100	7643		AGA26		1
AGA28	7643		AGA28		1
AGA29	7643		AGA29		1
AGA30.0	7643		AGA30.0		1
AGA30.1	7643		AGA30.1		1
AGA30.2	7643		AGA30.2		1
S55851-Z401-A100	7643		AGA30.7		1
AGA32	7921		AGA32		1
AGA34	7804/7921		AGA34		1
AGA40.40	7631		AGA40.40		1
AGA40.41	7631		AGA40.41		1
AGA40.6580U	7631us		AGA40.6580U		1
AGA40.0100U	7631us		AGA40.0100U		1
AGA40.0150U	7631us		AGA40.0150U		1
AGA55.5	7815		AGA55.5		1
AGA56.1A97	7922		AGA56.1A97		1
AGA56.41A17	7922		AGA56.41A17		1
AGA56.41A27	7922		AGA56.41A27		1
AGA56.41A87	7922		AGA56.41A87		1
AGA56.42A17	7922		AGA56.42A17		1
AGA56.42A27	7922		AGA56.42A27		1
AGA56.42A87	7922		AGA56.42A87		1
AGA56.43A17	7922		AGA56.43A17		1
AGA56.43A27	7922		AGA56.43A27		1
AGA56.43A87	7922		AGA56.43A87		1
AGA56.9A17	7922		AGA56.9A17		1
AGA56.9A27	7922		AGA56.9A27		1
AGA56.9A87	7922		AGA56.9A87		1
AGA57.1	7815		AGA57.1		1
AGA57.2	7815		AGA57.2		1
AGA57.3	7815		AGA57.3		1
AGA58.1	7815		AGA58.1		1
AGA58.2	7815		AGA58.2		1
AGA58.3	7815		AGA58.3		1
AGA58.4	7815		AGA58.4		1
AGA58.5	7815		AGA58.5		1
AGA58.7	7815		AGA58.7		1
AGA58.9	7815		AGA58.9		1
AGA60	7631 / 7633 / 7636		AGA60		1
AGA61	7637		AGA61		1
AGA62.000A000	7643		AGA62.000A000		1
AGA63.5A27	7923		AGA63.5A27		1
AGA64	7643		AGA64		4
AGA65	7643		AGA65		4

Order #	Data Sheet #		Type	Last Order	Order multiple*
AGA...					
AGA66	7643		AGA66		1
AGA67	7643		AGA67		1
AGA68	7643		AGA68		1
AGA75	7643		AGA75		1
AGA78	7651		AGA78		1
S55851-Z901-A100	7631		AGA92		1
AGF...					
AGF10.15	7646		AGF10.15		1
AGF10.15U	7646		AGF10.15U		1
AGF10.20	7646		AGF10.20		1
AGF10.20U	7646		AGF10.20U		1
AGF10.25	7646		AGF10.25		1
AGF10.25U	7646		AGF10.25U		1
AGF10.32	7646		AGF10.32		1
AGF10.32U	7646		AGF10.32U		1
AGF10.40	7646		AGF10.40		1
AGF10.40U	7646		AGF10.40U		1
AGF10.50	7646		AGF10.50		1
AGF10.50U	7646		AGF10.50U		1
AGG...					
AGG01	7712		AGG01		1
AGG02	7712		AGG02		1
AGG03	7712		AGG03		1
AGG04	7711		AGG04		1
AGG05	7712		AGG05		1
AGG06	7712		AGG06		1
AGG07	7712		AGG07		1
AGG08	7712		AGG08		1
AGG09	7712/7713		AGG09		1
AGG12.1	7761		AGG12.1	31.12.2020	1
AGG13.1	7461		AGG13.1	31.12.2020	1
AGG15	7711		AGG15		5
AGG16.C	7712		AGG16.C		1
AGG41041713(AE)	7161		AGG41041713(AE)	31.12.2020	1
AGG41041713(EC)	7761		AGG41041713(EC)	31.12.2020	1
AGG41041713(FE)	7461		AGG41041713(FE)	31.12.2020	1
AGK...					
AGK11	7201		AGK11		50
AGK11.6	7201		AGK11.6		50
AGK11.7	7782		AGK11.7		50
AGK25	7101/7435		AGK25		5
AGK410413450	7781		AGK410413450	31.06.2019	50
AGK410490250	7781		AGK410490250	31.06.2019	25
AGK65	7201		AGK65		500
AGK65.1	7201		AGK65.1		500
AGK66	7201		AGK66		500
AGK20.19	7106		AGK20.19		200
AGK20.43	7106		AGK20.43		40
AGK20.55	7106		AGK20.55		40
New S55856-Z301-A100	7782		AGK30		1
New S55856-Z401-A100	7720		AGK42		250
New S55856-Z402-A100	7720		AGK43		250
AGM...					
AGM11	7230		AGM11	01.07.2027	18
AGM11.1	7230		AGM11.1	01.07.2027	18
AGM13.1	7230		AGM13.1	01.07.2027	18
AGM14.1	7230		AGM14.1	01.07.2027	18
AGM15	7230		AGM15	31.12.2021	18
AGM15.1	7230		AGM15.1	31.12.2021	18
AGM16	7230		AGM16	01.07.2027	18
AGM16.1	7230		AGM16.1	01.07.2027	18
AGM17	7230		AGM17	01.07.2027	18
AGM17.1	7230		AGM17.1	01.07.2027	18
AGM19	7712		AGM19	01.07.2027	18
AGM410490500	7230		AGM410490500	01.07.2027	18
AGM410490550	7230		AGM410490550	01.07.2027	18

Order #	Data Sheet #		Type	Last Order	Order multiple*
AGQ...					
AGQ1.1A27	7435		AGQ1.1A27		1
AGQ3.1A27	7101		AGQ3.1A27		1
AGR...					
AGR450211310	7712		AGR450211310		20
AGR450240650	7712		AGR450240650		20
AGR450242680	7783		AGR450242680		20
AR...					
ARC466890660	7422 / 7435		ARC466890660		1
ARG41	7865		ARG41	31.10.2020	1
ARK21A27	7118		ARK21A27	31.12.2018	1
ASK...					
ASK33.1	7646		ASK33.1		1
ASK33.3	7815		ASK33.3		1
New ASK33.4	7813/7814...		ASK33.4		1
ASK33.9	7815		ASK33.9		1
ASZ...					
ASZ12.30	7921		ASZ12.30		10
ASZ12.33	7921		ASZ12.33		10
ASZ12.703	7921		ASZ12.703		10
ASZ12.733	7921		ASZ12.733		10
ASZ12.803	7921		ASZ12.803		10
ASZ12.833	7921		ASZ12.833		10
ASZ16.703	7921		ASZ16.703		10
ASZ16.733	7921		ASZ16.733		10
ASZ22.30	7921		ASZ22.30		10
S55852-Z301-A100	7921		ASZ22.32		10
ASZ22.33	7921		ASZ22.33		10
S55852-Z302-A100	7921		ASZ22.34		10
S55852-Z303-A100	7921		ASZ22.35		10
ASZ22.703	7921		ASZ22.703		10
ASZ22.733	7921		ASZ22.733		10
ASZ22.803	7921		ASZ22.803		10
ASZ22.833	7921		ASZ22.833		10
K...					
KF88...					
KF8819	7118		KF8819		1
KF8833	7118		KF8833		1
KF8840	7118		KF8840		1
KF8852	7435		KF8852	31.12.2020	1
KF8853-K	7435		KF8853-K	31.12.2020	1
KF8872	7435		KF8872		1
KF8880	7435		KF8880	31.12.2020	1
KF8885	7986		KF8885		1
KF8896	7782		KF8896		1
L...					
LAE...					
LAE1/8864	7161		LAE1/8864	31.12.2020	1
LAE1/1355	7161		LAE1/1355	31.12.2020	1
LAE1/8846	7161		LAE1/8846	31.12.2020	1
LAE1/8865	7161		LAE1/8865	31.12.2020	1
LAE10-110V	7781		LAE10-110V	31.06.2019	1
LAE10	7781		LAE10	31.06.2019	1

Order #	Data Sheet #		Type	Last Order	Order multiple*
LAL...					
LAL1.25-110V	7153		LAL1.25-110V	01.07.2027	10
LAL2.25-110V	7153		LAL2.25-110V	01.07.2027	10
LAL2.65-110V	7153		LAL2.65-110V	01.07.2027	10
LAL3.25-110V	7153		LAL3.25-110V	01.07.2027	10
LAL1.25	7153		LAL1.25	01.07.2027	10
LAL2.14	7153		LAL2.14	01.07.2027	10
LAL2.25	7153		LAL2.25	01.07.2027	10
LAL2.65	7153		LAL2.65	01.07.2027	10
LAL3.25	7153		LAL3.25	01.07.2027	10
LDU...					
LDU11.323A17	7696		LDU11.323A17	01.07.2027	10
LDU11.523A17	7696		LDU11.523A17	01.07.2027	10
LDU11.323A27	7696		LDU11.323A27	01.07.2027	10
LDU11.523A27	7696		LDU11.523A27	01.07.2027	10
LEC...					
LEC1.1/8854	7761		LEC1.1/8854	31.12.2020	1
LEC1/8851	7761		LEC1/8851	31.12.2020	1
LEC1/8853	7761		LEC1/8853	31.12.2020	1
LEC1/8868	7761		LEC1/8868	31.12.2020	1
LEC1/8892	7761		LEC1/8892	31.12.2020	1
LEC1/8906	7761		LEC1/8906	31.12.2020	1
LEC1/9500	7761		LEC1/9500	31.12.2020	1
LFE...					
LFE1/8851	7461		LFE1/8851	31.12.2020	1
LFE1/8853	7461		LFE1/8853	31.12.2020	1
LFE1/8867	7461		LFE1/8867	31.12.2020	1
LFE1/8868	7461		LFE1/8868	31.12.2020	1
LFE1/8892	7461		LFE1/8892	31.12.2020	1
LFE10-110V	7781		LFE10-110V	31.06.2019	1
LFE10	7781		LFE10	31.06.2019	1
LFE50-110V	7783		LFE50-110V	31.12.2020	1
LFE50	7783		LFE50	31.12.2020	1
LFL...					
LFL1.122-110V	7451		LFL1.122-110V	01.07.2027	10
LFL1.133-110V	7451		LFL1.133-110V	01.07.2027	10
LFL1.322-110V	7451		LFL1.322-110V	01.07.2027	10
LFL1.333-110V	7451		LFL1.333-110V	01.07.2027	10
LFL1.335-110V	7451		LFL1.335-110V	01.07.2027	10
LFL1.622-110V	7451		LFL1.622-110V	01.07.2027	10
LFL1.635-110V	7451		LFL1.635-110V	01.07.2027	10
LFL1.122	7451		LFL1.122	01.07.2027	10
LFL1.133	7451		LFL1.133	01.07.2027	10
LFL1.148	7454		LFL1.148	01.07.2027	10
LFL1.322	7451		LFL1.322	01.07.2027	10
LFL1.333	7451		LFL1.333	01.07.2027	10
LFL1.335	7451		LFL1.335	01.07.2027	10
LFL1.622	7451		LFL1.622	01.07.2027	10
LFL1.635	7451		LFL1.635	01.07.2027	10
LFL1.638	7451		LFL1.638	01.07.2027	10
LFS...					
LFS1.11A1	7782		LFS1.11A1		25
LFS1.11A2	7782		LFS1.11A2		25
LFS1.21A1	7782		LFS1.21A1		25
LFS1.21A2	7782		LFS1.21A2		25

Order #	Data Sheet #		Type	Last Order	Order multiple*
LGB...					
LGB21.130A27	7435		LGB21.130A27	31.12.2020	25
LGB21.230A27	7435		LGB21.230A27	31.12.2020	25
LGB21.330A27	7435		LGB21.330A27	31.12.2020	25
LGB21.350A27	7435		LGB21.350A27	31.12.2020	25
LGB21.550A27	7435		LGB21.550A27	31.12.2020	25
LGB22.130A27	7435		LGB22.130A27	31.12.2020	25
LGB22.230B27	7435		LGB22.230B27	31.12.2020	25
LGB22.330A27	7435		LGB22.330A27	31.12.2020	25
LGB32.330A27	7435		LGB32.330A27	31.12.2020	25
LGB41.258A27	7435		LGB41.258A27	31.12.2020	25
LGI...					
LGI16.053A27	7786		LGI16.053A27	31.12.2021	1
LGK...					
LGK16.635A17	7785		LGK16.635A17	01.07.2027	10
LGK16.122A27	7785		LGK16.122A27	01.07.2027	10
LGK16.133A27	7785		LGK16.133A27	01.07.2027	10
LGK16.322A27	7785		LGK16.322A27	01.07.2027	10
LGK16.333A27	7785		LGK16.333A27	01.07.2027	10
LGK16.335A27	7785		LGK16.335A27	01.07.2027	10
LGK16.622A27	7785		LGK16.622A27	01.07.2027	10
LGK16.635A27	7785		LGK16.635A27	01.07.2027	10
LME...					
LME21.130C1	7101		LME21.130C1		25
LME21.330C1	7101		LME21.330C1		25
LME21.350C1	7101		LME21.350C1		25
LME11.230C2	7101		LME11.230C2		25
LME11.330C2	7101		LME11.330C2		25
LME21.130C2	7101		LME21.130C2		25
LME21.230C2	7101		LME21.230C2		25
LME21.330C2	7101		LME21.330C2		25
LME21.350C2	7101		LME21.350C2		25
LME21.550C2	7101		LME21.550C2		25
LME22.131C2	7101		LME22.131C2		25
LME22.232C2	7101		LME22.232C2		25
LME22.233C2	7101		LME22.233C2		25
LME22.331C2	7101		LME22.331C2		25
LME23.331C2	7101		LME23.331C2		25
LME23.351C2	7101		LME23.351C2		25
LME41.051C2	7101		LME41.051C2		25
New S55333-B103-C100	7101		LME41.052C2		25
LME41.054C2	7101		LME41.054C2		25
LME41.091C2	7101		LME41.091C2		25
LME41.092C2	7101		LME41.092C2		25
LME44.056C2	7101		LME44.056C2		25
LME44.057C2	7101		LME44.057C2		25
LME44.190C2	7101		LME44.190C2		25
LMO...					
LMO14.111C2	7130		LMO14.111C2		25
LMO14.113C2	7130		LMO14.113C2		25
LMO24.011C2	7130		LMO24.011C2		25
LMO24.111C2	7130		LMO24.111C2		25
LMO24.255C2	7130		LMO24.255C2		25
LMO44.255C2	7130		LMO44.255C2		25
LMO64.300C2	7138		LMO64.300C2		25
LMO64.301C2	7138		LMO64.301C2		25
LOA...					
LOA24.171B27	7118		LOA24.171B27	31.12.2024	25
LOA24.173A27	7118		LOA24.173A27	31.12.2024	25
LOA26.171B27	7118		LOA26.171B27	31.12.2018	25
LOA36.171A27	7118		LOA36.171A27	31.12.2018	25

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LOK...					
LOK16.250A17	7785		LOK16.250A17	01.07.2027	10
LOK16.140A27	7785		LOK16.140A27	01.07.2027	10
LOK16.250A27	7785		LOK16.250A27	01.07.2027	10
LOK16.650A27	7785		LOK16.650A27	01.07.2027	10

O...

OCI...					
OCI400	7614		OCI400		1
OCI410.20	7616		OCI410.20		1
OCI410.30	7616		OCI410.30		1
OCI410.40	7616		OCI410.40		1
OCI412.10	7616		OCI412.10		1

Q...

QPL...					
QPL15.010	7221		QPL15.010		1
QPL15.050	7221		QPL15.050		1
QPL15.150	7221		QPL15.150		1
QPL15.500	7221		QPL15.500		1
QPL25.003	7221		QPL25.003		1
QPL25.010	7221		QPL25.010		1
QPL25.050	7221		QPL25.050		1
QPL25.150	7221		QPL25.150		1
QPL25.500	7221		QPL25.500		1

AGA65 plug-in connectors are to be ordered separately

QRA...					
QRA2	7712		QRA2		50
QRA2(1)	7712		QRA2(1)		50
QRA2(2)	7712		QRA2(2)		50
QRA2M	7712		QRA2M		50
QRA2M(1)	7712		QRA2M(1)		50
QRA2M(2)	7712		QRA2M(2)		50
QRA2.9	7712		QRA2.9		50
QRA4.U	7711		QRA4.U		1
QRA4M.U	7711		QRA4M.U		1
QRA10.C	7712		QRA10.C		1
QRA10M.C	7712		QRA10M.C		1
QRA50M	7783		QRA50M	31.12.2020	1
QRA51M	7783		QRA51M	31.12.2020	1
QRA53.E17	7712		QRA53.E17	01.07.2027	1
QRA53.G17	7712		QRA53.G17	01.07.2027	1
QRA53.E27	7712		QRA53.E27	01.07.2027	1
QRA53.G27	7712		QRA53.G27	01.07.2027	1
QRA55.E17	7712		QRA55.E17	01.07.2027	1
QRA55.E27	7712		QRA55.E27	01.07.2027	1
QRA55.G17	7712		QRA55.G17	01.07.2027	1
QRA55.G27	7712		QRA55.G27	01.07.2027	1

Order #	Data Sheet #		Type	Last Order	Order multiple*
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R...

RAR...					
RAR9	7713		RAR9		50
RAR9(1)	7713		RAR9(1)		50
RAR9(2)	7713		RAR9(2)		50

RWF...					
RWF50.20A9	7866		RWF50.20A9		1
RWF50.30A9	7866		RWF50.30A9		1
RWF55.50A9	7867		RWF55.50A9		1
RWF55.60A9	7867		RWF55.60A9		1

S...

SKL...					
SKL25.003E1	7643		SKL25.003E1	30.09.2020	1
SKL25.001E2	7643		SKL25.001E2	30.09.2020	1
SKL25.003E2	7643		SKL25.003E2	30.09.2020	1

SKP15...					
SKP15.000E1	7643		SKP15.000E1		1
SKP15.001E1	7643		SKP15.001E1		1
SKP15.000E2	7643		SKP15.000E2		1
SKP15.001E2	7643		SKP15.001E2		1

SKP25...					
SKP25.001E1	7643		SKP25.001E1		1
SKP25.003E1	7643		SKP25.003E1		1
SKP25.001E2	7643		SKP25.001E2		1
SKP25.003E2	7643		SKP25.003E2		1
SKP25.203E2	7643		SKP25.203E2		1
SKP25.201E2	7643		SKP25.201E2		1
SKP25.203E2L	7643		SKP25.203E2L		1
SKP25.303E2	7643		SKP25.303E2		1
SKP25.403E2	7643		SKP25.403E2		1

SKP55...					
SKP55.001E1	7643		SKP55.001E1		1
SKP55.001E2	7643		SKP55.001E2		1
SKP55.003E2	7643		SKP55.003E2		1

SKP75...					
SKP75.001E1	7643		SKP75.001E1		1
SKP75.003E1	7643		SKP75.003E1		1
SKP75.001E2	7643		SKP75.001E2		1
SKP75.003E2	7643		SKP75.003E2		1

AGA connectors are to be ordered seperately

SKP*5...U	US Versions				
SKP15.011U1	7643	SKP15 (US)	SKP15.011U1		1
SKP15.012U1	7643	SKP15 (US)	SKP15.012U1		1
SKP15.013U1	7643	SKP15 (US)	SKP15.013U1		1
SKP25.011U1	7643	SKP25 (US)	SKP25.011U1		1
SKP25.012U1	7643	SKP25 (US)	SKP25.012U1		1
SKP25.013U1	7643	SKP25 (US)	SKP25.013U1		1
SKP55.011U1	7643	SKP55 (US)	SKP55.011U1		1
SKP55.012U1	7643	SKP55 (US)	SKP55.012U1		1
SKP55.013U1	7643	SKP55 (US)	SKP55.013U1		1
SKP75.011U1	7643	SKP75 (US)	SKP75.011U1		1
SKP75.012U1	7643	SKP75 (US)	SKP75.012U1		1
SKP75.013U1	7643	SKP75 (US)	SKP75.013U1		1

Order #	Data Sheet #		Type	Last Order	Order multiple*
SQM1...					
SQM10.15502	7812		SQM10.15502	31.12.2021	1
SQM10.16502	7812		SQM10.16502	31.12.2021	1
SQM10.17502	7812		SQM10.17502	31.12.2021	1
SQM2...					
SQM20.16502	7812		SQM20.16502	31.12.2021	1
SQM20.18502	7812		SQM20.18502	31.12.2021	1
SQM21.16502	7812		SQM21.16502	31.12.2021	1
SQM21.18501	7812		SQM21.18501	31.12.2021	1
SQM21.18502	7812		SQM21.18502	31.12.2021	1
SQM40...					
SQM40.025A21	7817		SQM40.025A21		1
SQM40.065A23	7817		SQM40.065A23		1
SQM40.115R11	7817		SQM40.115R11		1
SQM40.115R13	7817		SQM40.115R13		1
SQM40.141A21	7817		SQM40.141A21		1
SQM40.145A21	7817		SQM40.145A21		1
SQM40.155R11	7817		SQM40.155R11		1
SQM40.155R13	7817		SQM40.155R13		1
SQM40.161A20	7817		SQM40.161A20		1
SQM40.165A20	7817		SQM40.165A20		1
SQM40.165A21	7817		SQM40.165A21		1
SQM40.185R11	7817		SQM40.185R11		1
SQM40.215R11	7817		SQM40.215R11		1
SQM40.215R13	7817		SQM40.215R13		1
SQM40.235A20	7817		SQM40.235A20		1
SQM40.241A21	7817		SQM40.241A21		1
SQM40.244A21	7817		SQM40.244A21		1
SQM40.245A21	7817		SQM40.245A21		1
SQM40...					
SQM40.247A21	7817		SQM40.247A21		1
SQM40.255A21	7817		SQM40.255A21		1
SQM40.255R11	7817		SQM40.255R11		1
SQM40.255R13	7817		SQM40.255R13		1
SQM40.261A20	7817		SQM40.261A20		1
SQM40.261A21	7817		SQM40.261A21		1
SQM40.265A20	7817		SQM40.265A20		1
SQM40.265A21	7817		SQM40.265A21		1
SQM40.267A20	7817		SQM40.267A20		1
SQM40.275A20	7817		SQM40.275A20		1
SQM40.275R10	7817		SQM40.275R10		1
SQM40.281A20	7817		SQM40.281A20		1
SQM40.285R11	7817		SQM40.285R11		1
SQM40.317A23	7817		SQM40.317A23		1
SQM40.317R11	7817		SQM40.317R11		1
SQM40.317R13	7817		SQM40.317R13		1
SQM40.357R11	7817		SQM40.357R11		1
SQM40.357R13	7817		SQM40.357R13		1
S55452-D301-A100	7817		SQM40.367A10		1
SQM40.387A20	7817		SQM40.387A20		1
SQM40.387A23	7817		SQM40.387A23		1
SQM40.387R11	7817		SQM40.387R11		1

Order #	Data Sheet #		Type	Last Order	Order multiple*
SQM41...					
SQM41.145A21	7817		SQM41.145A21		1
SQM41.185R11	7817		SQM41.185R11		1
SQM41.241A21	7817		SQM41.241A21		1
SQM41.244A21	7817		SQM41.244A21		1
SQM41.245A21	7817		SQM41.245A21		1
SQM41.254R11	7817		SQM41.254R11		1
SQM41.261A21	7817		SQM41.261A21		1
SQM41.264A21	7817		SQM41.264A21		1
SQM41.275R10	7817		SQM41.275R10		1
SQM41.285R11	7817		SQM41.285R11		1
SQM41.357A23	7817		SQM41.357A23		1
SQM41.357R11	7817		SQM41.357R11		1
SQM41.367A21	7817		SQM41.367A21		1
SQM41.387R11	7817		SQM41.387R11		1

SQM50...					
SQM50.260A2G4	7815		SQM50.260A2G4		1
New S55452-D401-A100	7815		SQM50.260A2Z3		1
SQM50.380A1	7815		SQM50.380A1		1
SQM50.380A2	7815		SQM50.380A2		1
SQM50.381A2	7815		SQM50.381A2		1
SQM50.381A2G3	7815		SQM50.381A2G3		1
SQM50.387A2	7815		SQM50.387A2		1
SQM50.387A2G3	7815		SQM50.387A2G3		1
SQM50.424A2Z7	7815		SQM50.424A2Z7		1
SQM50.441A2	7815		SQM50.441A2		1
SQM50.480A1	7815		SQM50.480A1		1
SQM50.480A1Z3	7815		SQM50.480A1Z3		1
SQM50.480A2G3	7815		SQM50.480A2G3		1
SQM50.480A2Z3	7815		SQM50.480A2Z3		1
SQM50.481A2	7815		SQM50.481A2		1
SQM50.481A2G3	7815		SQM50.481A2G3		1
SQM50.481A2Z3	7815		SQM50.481A2Z3		1
SQM50.482A2	7815		SQM50.482A2		1
SQM50.483A2Z3	7815		SQM50.483A2Z3		1
SQM50.483A8	7815		SQM50.483A8		1
SQM50.483A8Z3	7815		SQM50.483A8Z3		1
SQM50.543A8	7815		SQM50.543A8		1
SQM50.681A2	7815		SQM50.681A2		1

SQM53...					
SQM53.480A1	7815		SQM53.480A1		1
SQM53.482A1Z3	7815		SQM53.482A1Z3		1
SQM53.482A2	7815		SQM53.482A2		1
SQM53.482A2Z3	7815		SQM53.482A2Z3		1
SQM53.489A2	7815		SQM53.489A2		1
SQM53.582A2	7815		SQM53.582A2		1

Order #	Data Sheet #		Type	Last Order	Order multiple*
SQM54...					
SQM54.480A2	7815		SQM54.480A2		1
SQM54.481A203	7815		SQM54.481A203		1
SQM54.482A1	7815		SQM54.482A1		1
SQM54.482A2	7815		SQM54.482A2		1
SQM54.482A203	7815		SQM54.482A203		1
SQM54.482A207	7815		SQM54.482A207		1
SQM54.482A2Z3	7815		SQM54.482A2Z3		1
SQM54.580A2	7815		SQM54.580A2		1
SQM56...					
SQM56.680A2	7815		SQM56.680A2		1
SQM56.684A2G4	7815		SQM56.684A2G4		1
SQM56.687A2	7815		SQM56.687A2		1
SQM56.687A203	7815		SQM56.687A203		1
SQM56.687A2Z3	7815		SQM56.687A2Z3		1
SQM56.687A8	7815		SQM56.687A8		1
SQN30...					
SQN30.111A1700	7808		SQN30.111A1700		20
SQN30.121A1700	7808		SQN30.121A1700		20
SQN30.151A1700	7808		SQN30.151A1700		20
SQN30.402A1700	7808		SQN30.402A1700		20
SQN30.102A2700	7808		SQN30.102A2700		20
SQN30.111A2700	7808		SQN30.111A2700		20
SQN30.121A2700	7808		SQN30.121A2700		20
SQN30.151A2700	7808		SQN30.151A2700		20
SQN30.401A2700	7808		SQN30.401A2700		20
SQN30.401A2730	7808		SQN30.401A2730		20
SQN30.402A2700	7808		SQN30.402A2700		20
SQN30.402A2730	7808		SQN30.402A2730		20
SQN31...					
SQN31.101A1700	7808		SQN31.101A1700		20
SQN31.151A1700	7808		SQN31.151A1700		20
SQN31.251A1700	7808		SQN31.251A1700		20
SQN31.401A1700	7808		SQN31.401A1700		20
SQN31.101A2700	7808		SQN31.101A2700		20
SQN31.111A2700	7808		SQN31.111A2700		20
SQN31.121A2700	7808		SQN31.121A2700		20
SQN31.151A2700	7808		SQN31.151A2700		20
SQN31.221A2700	7808		SQN31.221A2700		20
SQN31.251A2700	7808		SQN31.251A2700		20
SQN31.401A2700	7808		SQN31.401A2700		20
SQN31.411A2700	7808		SQN31.411A2700		20
SQN70...					
SQN70.244A20	7804		SQN70.244A20		16
SQN70.424A20	7804		SQN70.424A20		16
SQN70.464A23	7804		SQN70.464A23		16
SQN70.664A20	7804		SQN70.664A20		16
SQN70.664A23	7804		SQN70.664A23		16
SQN71...					
SQN71.244A20	7804		SQN71.244A20		16
SQN71.264A20	7804		SQN71.264A20		16
SQN71.664A20	7804		SQN71.664A20		16
SQN71.669A23	7804		SQN71.669A23		16
SQN72...					
SQN72.2A4A20	7802		SQN72.2A4A20		16
SQN72.2C4A20	7802		SQN72.2C4A20		16
SQN72.4A4A20	7802		SQN72.4A4A20		16
S55454-D301-A100	7802		SQN72.4C4A21		16
SQN72.6C4A21	7802		SQN72.6C4A21		16
SQN75...					
SQN75.6K4A21	7804		SQN75.6K4A21		16

Order #	Data Sheet #		Type	Last Order	Order multiple*
V...					
VGD20...					
S55590-G103-A100	7631		VGD20.2511		1
S55590-G101-A100	7631		VGD20.3211		1
VGD20.403	7631		VGD20.403		1
VGD20.4011	7631		VGD20.4011		1
VGD20.503	7631		VGD20.503		1
VGD20.5011	7631		VGD20.5011		1
VGD20...U US Versions					
New S55590-G104-A100	7631 VG...(US)		VGD20.253U		1
New S55590-G102-A100	7631 VG...(US)		VGD20.323U		1
VGD20.403U	7631 VG...(US)		VGD20.403U		1
VGD20.503U	7631 VG...(US)		VGD20.503U		1
VGD40...					
VGD40.040	7631		VGD40.040		1
VGD40.050	7631		VGD40.050		1
VGD40.065	7631		VGD40.065		1
VGD40.080	7631		VGD40.080		1
VGD40.100	7631		VGD40.100		1
VGD40.125	7631		VGD40.125		1
VGD40.150	7631		VGD40.150		1
VGD40...L					
VGD40.050L	7631		VGD40.050L		1
VGD40.065L	7631		VGD40.065L		1
VGD40.080L	7631		VGD40.080L		1
VGD40.100L	7631		VGD40.100L		1
VGD40.125L	7631		VGD40.125L		1
VGD40.150L	7631		VGD40.150L		1
VGD40...U US Versions					
VGD40.065U	7631 VG.(US)		VGD40.065U		1
VGD40.080U	7631 VG.(US)		VGD40.080U		1
VGD40.100U	7631 VG.(US)		VGD40.100U		1
VGD40.150U	7631 VG.(US)		VGD40.150U		1
VGD41...					
VGD41.040	7631		VGD41.040		1
VGD41.050	7631		VGD41.050		1
VGD41.065	7631		VGD41.065		1
VGD41.080	7631		VGD41.080		1
VGD41.100	7631		VGD41.100		1
VGD41.125	7631		VGD41.125		1
VGF10...					
VGF10.404P	7636		VGF10.404P	30.09.2020	1
VGF10.504P	7636		VGF10.504P		1
VGF10.5041P	7636		VGF10.5041P	30.09.2020	1
VGF10.654P	7636		VGF10.654P		1
VGF10.804P	7636		VGF10.804P		1
VGF10.8041P	7636		VGF10.8041P	30.09.2020	1
VGG10...					
VGG10.154P	7636		VGG10.154P		1
VGG10.1541P	7636		VGG10.1541P		1
VGG10.204P	7636		VGG10.204P		1
VGG10.2041P	7636		VGG10.2041P		1
VGG10.254P	7636		VGG10.254P		1
VGG10.2541P	7636		VGG10.2541P		1
VGG10.404P	7636		VGG10.404P		1
VGG10.4041P	7636		VGG10.4041P		1
VGG10.504P	7636		VGG10.504P		1
VGG10.5041P	7636		VGG10.5041P		1
VGG10.804P	7636		VGG10.804P		1
VGG10.8041P	7636		VGG10.8041P	30.09.2020	1
VGG10.154U	US-Doc. No.155-51		VGG10.154U		1
VGG10.204U	US-Doc. No.155-51		VGG10.204U		1
VGG10.254U	US-Doc. No.155-51		VGG10.254U		1
VGG10.404U	US-Doc. No.155-51		VGG10.404U		1
VGG10.504U	US-Doc. No.155-51		VGG10.504U		1
VGG10.654U	US-Doc. No.155-51		VGG10.654U		1
VGG10.804U	US-Doc. No.155-51		VGG10.804U		1






Order #	Data Sheet #		Type	Last Order	Order multiple*
VKF41...C					
	7632		VKF41.40C		1
	7632		VKF41.50C		1
	7632		VKF41.65C		1
	7632		VKF41.80C		1
	7632		VKF41.100C		1
	7632		VKF41.125C		1
	7632		VKF41.150C		1
	7632		VKF41.200C		1
VKF41...H					
	7671		VKF41.65H		1
	7671		VKF41.80H		1
	7671		VKF41.100H		1
	7671		VKF41.125H		1
	7671		VKF41.150H		1
	7671		VKF41.200H		1
VKF10					
New	S55592-G101-A100	7673	VKF10.032		1
New	S55592-G102-A100	7673	VKF10.040		1
New	S55592-G103-A100	7673	VKF10.050		1
New	S55592-G104-A100	7673	VKF10.065		1
New	S55592-G105-A100	7673	VKF10.080		1
New	S55592-G106-A100	7673	VKF10.100		1
New	S55592-G107-A100	7673	VKF10.125		1
New	S55592-G108-A100	7673	VKF10.150		1
New	S55592-G109-A100	7673	VKF10.200		1
VKF11					
New	S55592-G110-A100	7673	VKF11.032		1
New	S55592-G111-A100	7673	VKF11.040		1
New	S55592-G112-A100	7673	VKF11.050		1
New	S55592-G113-A100	7673	VKF11.065		1
New	S55592-G114-A100	7673	VKF11.080		1
New	S55592-G115-A100	7673	VKF11.100		1
New	S55592-G116-A100	7673	VKF11.125		1
New	S55592-G117-A100	7673	VKF11.150		1
New	S55592-G118-A100	7673	VKF11.200		1
VKG					
Neu	S55592-G301-A100	7652	VKG10.032ER		1
Neu	S55592-G302-A100	7652	VKG10.040ER		1
Neu	S55592-G303-A100	7652	VKG10.050ER		1
Neu	S55592-G304-A100	7652	VKG10.065ER		1
Neu	S55592-G305-A100	7652	VKG10.080ER		1
Neu	S55592-G306-A100	7652	VKG20.032ER		1
Neu	S55592-G307-A100	7652	VKG20.040ER		1
Neu	S55592-G308-A100	7652	VKG20.050ER		1
Neu	S55592-G309-A100	7652	VKG20.065ER		1
Neu	S55592-G310-A100	7652	VKG20.080ER		1
VKP40...					
	7646		VKP40.15		1
	7646		VKP40.20		1
	7646		VKP40.25		1
	7646		VKP40.32		1
	7646		VKP40.40		1
	7646		VKP40.50		1
	7646		VKP40.50H		1
	7646		VKP40.50S		1
VLF45...					
	7637		VLF45.404	30.09.2020	1
	7637		VLF45.504	30.09.2020	1
	7637		VLF45.654	30.09.2020	1
	7637		VLF45.804	30.09.2020	1

Order #	Data Sheet #		Type	Last Order	Order multiple*
VRD40...					
VRD40.040	7649		VRD40.040		1
VRD40.050	7649		VRD40.050		1
VRD40.065	7649		VRD40.065		1
VRD40.080	7649		VRD40.080		1
VRD40.100	7649		VRD40.100		1
VRD40.125	7649		VRD40.125		1
VRD40.150	7649		VRD40.150		1
VRD40...U/UF					
VRD40.040U	7649us		VRD40.040U		1
VRD40.050U	7649us		VRD40.050U		1
VRD40.065UF	7649us		VRD40.065UF		1
VRD40.080UF	7649us		VRD40.080UF		1
VRD40.100UF	7649us		VRD40.100UF		1
VRD40.150UF	7649us		VRD40.150UF		1
VRF10...					
VRF10.404	7633		VRF10.404	30.09.2020	1
VRF10.504	7633		VRF10.504		1
VRF10.654	7633		VRF10.654	30.09.2020	1
VRF10.804	7633		VRF10.804		1






Part 2 - List by Application

Order codes, last order & ordering multiple information is indicated in the above alphabetical list only.

Oil Burner Controls (for Intermittent Operation)

				Type
LOA...				
Oil burner controls for the startup, supervision and control of 1- or 2-stage forced draft oil burners in intermittent operation.				
Oil throughput up to 30 kg/h.				
				
LOA...	Line voltage/frequency: AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%			
	Prepurge time	Safety time	Typical application	
Phase-out product	13 s	10 s	<30 kg oil/h, 2-stage	LOA24.171B27
Phase-out product	13 s	10 s	<30 kg oil/h, 2-stage; (a)	LOA24.173A27
Phase-out product	13 s	10 s	<30 kg oil/h, 2-stage; (b)	LOA26.171B27
Phase-out product	13 s	10 s	<30 kg oil/h, 2-stage; (b (c)	LOA36.171A27
	(a - with short post-ignition time		(b - remote reset with ARK21...	
	(c - with indication of flame intensity			
LMO...				
Microcontroller-based oil burner controls for the startup, supervision and control of forced draft oil burners in intermittent operation. Standard versions with oil throughput up to 30 kg/h, special versions above 30 kg/h.				
With microprocessor and remote reset.				
Line voltage/frequency: AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%				
				
LMO...	Prepurge time	Safety time	Typical application	
	15 s	10 s	<30 kg oil/h, 1-stage	LMO14.111C2
	15 s	10 s	<30 kg oil/h, 1-stage, with 3s post ignition time	LMO14.113C2
	5 s	10 s	Steam generators	LMO24.011C2
	15 s	10 s	<30 kg oil/h, 2-stage	LMO24.111C2
	25 s	5 s	</>30 kg oil/h, 2-stage	LMO24.255C2
	25 s	5 s	>30kg oil/h, direct fired air heaters	LMO44.255C2
	Specific application: post purge			
LMO64...	Prepurge time	Safety time	Post purge time	
	5 s	10 s	20 s	LMO64.300C2
	5 s	10 s	90 s	LMO64.301C2
	Plug-in base of LOA.../LMO...			
	Plug-in base of LMO64... (grey)			
	Cable gland holder (PG11 threads) for AGK11			
	Cable gland holder (M16 x 1.5 threads) for AGK11.6			
	Cable holder with knockout holes for AGK11			
Phase-out product	Remote reset module for LOA26/36...			ARK21A27
	Photoresistive detector, normal sensitivity, cable 70 cm, with flange & clamp			
Phase-out product	Photoresistive detector, high sensitivity, cable 70 cm, with flange & clamp			QRB1A-A070B70A1
	Photoresistive detector, normal sensitivity, cable 68 cm, with plug			
Phase-out product	Photoresistive detector, high sensitivity, cable 68 cm, with plug			QRB1B-A068B70B
Phase-out product	Clamp QRB1... (in packages of 100 pcs)			418610960
Phase-out product	Small flange for QRB1 (in packages of 100 pcs)			424114620
Phase-out product	Large flange for QRB1 (in packages of 100 pcs)			424116000

Oil Burner Controls (for Intermittent Operation)

		Type
	Yellow flame detectors for the supervision of oil flames in the visible light spectrum	
New	 QRB4A-B036A25: Photodiode detector, normal sensitivity, cable 36 cm, without plug / flange / clamp, black	S55723-S201-A100
New	QRB4A-B036B40B: Photodiode detector, normal sensitivity, cable 36 cm and plug, without flange and clamp, black	S55723-S210-A100
New	QRB4A-B050B70: Photodiode detector, normal sensitivity, cable 50 cm, without plug / flange / clamp, black	S55723-S202-A100
New	QRB4A-B050B70A: Photodiode detector, normal sensitivity, cable 50 cm, with flange and clamp, black	S55723-S207-A100
New	QRB4A-B050B70B: Photodiode detector, normal sensitivity, cable 50 cm with plug, without flange and clamp, black	S55723-S211-A100
New	QRB4A-B070B70: Photodiode detector, normal sensitivity, cable 70 cm, without plug / flange / clamp, black	S55723-S203-A100
New	QRB4A-B070B70A: Photodiode detector, normal sensitivity, cable 70 cm, with flange and clamp, black	S55723-S208-A100
New	QRB4A-B070B70B: Photodiode detector, normal sensitivity, cable 70 cm with plug, without flange and clamp, black	S55723-S212-A100
New	QRB4A-B110B70: Photodiode detector, normal sensitivity, cable 110 cm, without plug / flange / clamp, black	S55723-S219-A100
New	QRB4A-B150B70: Photodiode detector, normal sensitivity, cable 150 cm, without plug / flange / clamp, black	S55723-S204-A100
New	 QRB4B-B036A25: Photodiode detector, high sensitivity, cable 36 cm, without plug / flange / clamp, red	S55723-S205-A100
New	QRB4B-B036B40B: Photodiode detector, high sensitivity, cable 36 cm with plug, without flange and clamp, red	S55723-S213-A100
New	QRB4B-B050B70: Photodiode detector, high sensitivity, cable 50 cm, without plug / flange / clamp, red	S55723-S206-A100
New	QRB4B-B070B70: Photodiode detector, high sensitivity, cable 70 cm, without plug / flange / clamp, red	S55723-S221-A100
New	QRB4B-B050B70A: Photodiode detector, high sensitivity, cable 50 cm, with flange and clamp, red	S55723-S209-A100
New	QRB4B-B050B70B: Photodiode detector, high sensitivity, cable 50 cm with plug, without flange and clamp, red	S55723-S214-A100
New	QRB4B-B070B70B: Photodiode detector, high sensitivity, cable 70 cm with plug, without flange and clamp, red	S55723-S215-A100
New	QRB4B-C036B40: Photodiode detector, high sensitivity, 40 mm extended housing, cable 36 cm, without plug / flange / clamp, red	S55723-S216-A100
New	QRB4B-C036B40B: Photodiode detector, high sensitivity, 40 mm extended housing, cable 36 cm with plug, without flange and clamp, red	S55723-S217-A100
New	QRB4B-D030A25: Photodiode detector, high sensitivity, 72 mm extended housing, cable 30 cm, without plug / flange / clamp, red	S55723-S220-A100
New	QRB4B-D050B40B: Photodiode detector, high sensitivity, 72 mm extended housing, cable 50 cm with plug, without flange and clamp, red	S55723-S218-A100
New	 AGK42: Flange for QRB4 (in packages of 250 pcs)	S55856-Z401-A100
New	 AGK43: Clamp for QRB4 (in packages of 250 pcs)	S55856-Z402-A100
	Blue flame detectors for the supervision of blue or yellow flames of oil or gas burners	
	 ... with plug, cable 35 cm, normal sensitivity, front view	QRC1A1.101C27
	... with plug, cable 50 cm, normal sensitivity, front view	QRC1A1.103C27
QRC1..	... with plug, cable 50 cm, medium sensitivity, front view	QRC1A2.103C27
	... with plug, cable 35 cm, high sensitivity, front view	QRC1A3.101C27
	... with plug, cable 50 cm, medium sensitivity, lateral view	QRC1C2.103C27

Oil Burner Controls (for Intermittent Operation)

Type

LAL...

For the control and supervision of oil atomizing burners.

- For burners of medium to high capacity (>30 kg oil/h)
- For intermittent operation (at least 1 controlled shutdown every 24 hours)
- Can be universally used with multistage or modulating burners
- Suited for use with stationary air heaters



Line voltage/frequency:


AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

LAL...	Prepurge time	Safety time	Typical application	Type
Phase-out product	23 s	5 s	Universal use, without air pressure superv.	LAL1.25
Phase-out product	10 s	4 s	Flash steam generators	LAL2.14
Phase-out product	23 s	5 s	Universal use, with air pressure superv.	LAL2.25
Phase-out product	68 s	5 s	Medium-/heavy-oil burners	LAL2.65
Phase-out product	23 s	5 s	Special applications (incinerator plants)	LAL3.25
Line voltage/frequency:				
100V - 15%...110V +10%; 50...60Hz +/- 6%				
Phase-out product	23s	5s	Universal use, without air pressure superv.	LAL1.25-110V
Phase-out product	23s	5s	Universal use, with air pressure superv.	LAL2.25-110V
Phase-out product	68s	5s	Medium-/heavy-oil burners	LAL2.65-110V
Phase-out product	23s	5s	Special applications (incinerator plants)	LAL3.25-110V
Phase-out product	Plug-in base for LAL... (PG 11)			AGM410490500
Phase-out product	Plug-in base for LAL... (M 16)			AGM13.1

Flame supervision for LAL...

	Phase-out product	Photoresistive detector (black), normal sensitivity, cable 70 cm, with flange & clamp	QRB1A-A070B70A1
	Phase-out product	Photoresistive detector (red), high sensitivity, cable 70 cm, with flange & clamp	QRB1B-A070B70A1
	Phase-out product	Photoresistive detector (black), normal sensitivity, cable 68 cm, with plug	QRB1A-A068B70B
	Phase-out product	Photoresistive detector (red), high sensitivity, cable 68 cm, with plug	QRB1B-A068B70B
	Phase-out product	Clamp QRB1... (in packages of 100 pcs)	418610960
	Phase-out product	Small flange for QRB1 (in packages of 100 pcs)	424114620
	Phase-out product	Large flange for QRB1 (in packages of 100 pcs)	424116000
	Phase-out product	Photoresistive detector, metal housing, normal sens., without flange & clamp	QRB3
	Phase-out product	Photoresistive detector, metal housing, normal sens., with flange & clamp	QRB3(1)
	Phase-out product	Photoresistive detector, metal housing, high sensitivity, without flange & clamp	QRB3S
	Phase-out product	Clamp for QRB3... (in packages of 100 pcs)	418688060
	Phase-out product	Flange for QRB3... (in packages of 100 pcs)	428614900
	<i>for LAL2.../LAL3... only</i>		RAR9
	Silicon photo cell, without fixing mat., maximum cable length 100m		RAR9(1)
	Silicon photo cell, flange w/ radius & clamp, maximum cable length 100m		RAR9(2)
RAR..	Silicon photo cell, with straight flange & clamp, maximum cable length 100m		419988060
	Clamp for RAR... (in packages of 100 pcs)		424188550
	Flange (round) for RAR (in packages of 100 pcs)		424188980
	Flange (straight) for RAR (in packages of 100 pcs)		AGG09
	IP40-KIT (cable sealing element)		

Oil Burner Controls (for Intermittent Operation)

		Type
 QRC1..	for blue-flame burners with LAL1.../LAL4...	
	QRC	
	UV blue flame detector with plug, 35 cm cable, normal sensitivity, front view	QRC1A1.101C27
	UV blue flame detector with plug, 50 cm cable, normal sensitivity, front view	QRC1A1.103C27
	UV blue flame detector with plug, 50 cm cable, medium sensitivity, front view	QRC1A2.103C27
	UV blue flame detector with plug, 35 cm cable, high sensitivity, front view	QRC1A3.101C27
	UV blue flame detector with plug, 50 cm cable, medium sensitivity, lateral view	QRC1C2.103C27

LAE1...

Oil burner controls for use with burners of any capacity in intermittent operation.

For safety reasons, at least 1 controlled shutdown must take place every 24 hours.



LAE1/...	Prepurge time	Safety time	Typical application	
Phase-out product	30 s	5 s	Forced draft burners, high capacity	LAE1/1355
Phase-out product	30 s	2 s	Forced draft burners, high capacity	LAE1/8846
Phase-out product	30 s	2 s	As above, but 60 Hz	LAE1/8865

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50 Hz +/-6%

Line voltage/frequency:

100V -15%...110V +10%; 60Hz +/-6%

Phase-out product	Prepurge time	Safety time	Typical application	
Phase-out product	30s	2s	Forced draft burners, high capacity	LAE1/8864

Phase-out product	Plug-in base for LAE... (PG 11)	AGG41041713(AE)
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Oil Burner Controls (for Continuous Operation)

LOK16...

For the control and supervision of oil atomizing burners.

- For burners of medium to high capacity (>30 kg oil/h)
- For continuous operation
- Can be universally used with multistage or modulating burners
- Suited for use with stationary air heaters



LOK16..	Prepurge time	Safety time	Typical application	
Phase-out product	10 s	4 s	Flash-steam generators	LOK16.140A27
Phase-out product	23 s	5 s	Universal application	LOK16.250A27
Phase-out product	68 s	5 s	Medium- or heavy-oil burners	LOK16.650A27

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

Phase-out product	23 s	5 s	Universal application	LOK16.250A17
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Phase-out product	Plug-in base for LOK... (PG 11)	AGM16
Phase-out product	Plug-in base for LOK... (M 16)	AGM16.1












Flame Detectors for LAE1/... and LOK16...



RAR..

Silicon photo cell, without fixing mat., maximum cable length 100m	RAR9
Silicon photo cell, flange w/ radius & clamp, maximum cable length 100m	RAR9(1)
Silicon photo cell, with straight flange & clamp, maximum cable length 100m	RAR9(2)
Clamp for RAR... (in packages of 100 pcs)	419988060
Flange (round) for RAR (in packages of 100 pcs)	424188550
Flange (straight) for RAR (in packages of 100 pcs)	424188980
IP40-KIT (Cable Sealing Element)	AGG09

Gas Burner Controls (for Intermittent Operation)

				Type
	LGB...	Burner controls for the supervision of 1- or 2-stage gas or gas/oil burners of small to medium capacity (typically up to 350 kW), with or without fan, intermittent operation.		
LGB...				
Line voltage/frequency: AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%				
	Prepurge time	Safety time	Typical application	
Phase-out product	(8 s) 7 s	3 s	Forced draft burners, 2-stage	LGB21.130A27
Phase-out product	(8 s) 15 s	3 s	Forced draft burners, 2-stage	LGB21.230A27
Phase-out product	(8 s) 30 s	3 s	Forced draft burners, 2-stage	LGB21.330A27
Phase-out product	(8 s) 30 s	5 s	Forced draft burners, 2-stage	LGB21.350A27
Phase-out product	(8 s) 50 s	5 s	Forced draft burners, 2-stage	LGB21.550A27
Phase-out product	(9 s) 7 s	3 s	Forced draft burners, 2-st./mod.	LGB22.130A27
Phase-out product	(9 s) 15 s	3 s	Forced draft burners, 2-st./mod.	LGB22.230B27
Phase-out product	(9 s) 30 s	3 s	Forced draft burners, 2-st./mod.	LGB22.330A27
Phase-out product	(9 s) 30 s	3 s	Forced draft burners, 2-st., mod., UV (with QRC)	LGB32.330A27
Phase-out product	(18 s)–	5 s	Atmospheric gas burners with or without fan	LGB41.258A27
	Plug-in base for LGA..., LGB..., LGD...			AGK11
	Cable gland holder (PG11 threads) for AGK11			AGK65
	Cable gland holder (M16 x 1.5 threads) for AGK11			AGK65.1
	Cable holder with knockout holes for AGK11			AGK66
	LME...	Burner controls for the supervision of 1- or 2-stage gas or gas/oil burners of small to medium capacity (typically up to 500 kW), with or without fan in intermittent operation.		
LME...				
Line voltage/frequency: AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%				
	Prepurge time	Safety time	Typical application	
	20s	3s	force draft burner <120kW, 1-stage	LME11.230C2
	30s	3s	force draft burner <120kW, 1-stage	LME11.330C2
	7s	3s	force draft burner 2-stage, no damper control	LME21.130C2
	20s	3s	force draft burner 2-stage, no damper control	LME21.230C2
	30s	3s	force draft burner 2-stage, no damper control	LME21.330C2
	30s	5s	force draft burner 2-stage, no damper control	LME21.350C2
	50s	5s	force draft burner 2-stage, no damper control	LME21.550C2
	7s	3s	force draft burner 2-stage / modulating	LME22.131C2
	20s	3s	force draft burner 2-stage / modulating	LME22.232C2
	20s	3s	force draft burner 2-stage / modulating	LME22.233C2
	30s	3s	force draft burner 2-stage / modulating	LME22.331C2
	30s	3s	force draft burner 2-stage / modulating, UV	LME23.331C2
	30s	5s	force draft burner 2-stage / modulating, UV	LME23.351C2
	1s	5s	atmospheric, 1-stage, (aux fan)	LME41.051C2
	1s	5s	atmospheric, 1-stage, (aux fan)	LME41.054C2
	1s	10s	atmospheric, 1-stage, (aux fan)	LME41.091C2
	1s	10s	atmospheric, 1-stage, (aux fan)	LME41.092C2
	9s	5s	atmospheric, 2-stage, (aux fan)	LME44.056C2
	9s	5s	atmospheric, 2-stage, (aux fan)	LME44.057C2
	12s	10s	atmospheric, 2-stage, (aux fan)	LME44.190C2
	Line voltage/frequency: 120V +10% / -15% ; 50...60Hz +/-6%			
LME...	(2,5s)7s	3s	force draft burner 2-stage, no damper control	LME21.130C1
	(2,5s)30s	3s	force draft burner 2-stage, no damper control	LME21.330C1
	(2,5s)30s	5s	force draft burner 2-stage, no damper control	LME21.350C1
	Plug-in base for LME...			AGK11
	Cable gland holder (PG11 threads) for AGK11			AGK65
	Cable gland holder (M16 x 1.5 threads) for AGK11			AGK65.1
	Cable holder with knockout holes for AGK11			AGK66

Flame Detectors for LGB... / LME...

		Type
UV flame detectors for LGB21... / LGB22... / LMG... / LME11... / LME21... / LME22... / LME41... / LME44...		
 AGQ...	UV adapter for: LGB...	AGQ1.1A27
	UV adapter for: LME...	AGQ3.1A27
 QRA2... (with flange & clamp)	UV flame detector for LGB (only with AGQ...)	QRA2
	UV flame detector, normal sensitivity, without fixing material	QRA2(1)
	UV flame detector, normal sensitivity, round flange & clamp	QRA2(2)
	UV flame detector, normal sensitivity, straight flange & clamp	QRA2M
	UV flame detector, high sensitivity, without fixing material	QRA2M(1)
	UV flame detector, high sensitivity, round flange & clamp	QRA2M(2)
	UV flame detector, high sensitivity, straight flange & clamp	QRA2.9
	UV flame detector, norm. sens., w/o fixing mat., for temperature peaks up to 200 °C	
	Clamp for QRA2... (in packages of 100 pcs)	419988060
	Flange (round) for QRA2... (in packages of 100 pcs)	424188550
Flange (straight) for QRA2... (in packages of 100 pcs)	424188980	
IP40-KIT (cable sealing element)	AGG09	
 QRA4.U	UV flame detector, front view, with 3/4" -14 NPSM connection, normal sensitivity	QRA4.U
	UV flame detector, front view, with 3/4" -14 NPSM connection, high sensitivity	QRA4M.U
 AGG04	1" / 3/4" mounting adapter with connection for air cooling	AGG04
 AGG15	Heat insulating piece between QRA4... and mounting coupling AGG04	AGG15
 QRA10...	UV flame detector, normal sensitivity, in aluminium housing with 1" thread	QRA10.C
	UV flame detector, same as QRA10.C but high sensitivity	QRA10M.C
	IP65 Kit for QRA10... works with different cable sizes	AGG08
	Heat protection glass (for QRA10.../AGG16...)	AGG02
	Quartz-glass lens (for QRA10...C/AGG16...C)	AGG03
	Threaded nipple 1" (for QRA10.../AGG16...)	AGG05
	Glass holder with intermediate ring (for QRA10.../AGG16...)	AGG06
	Ball head (for QRA10.../AGG16...)	AGG07
	Quartz-glass lens (only for QRA10.xB, QRA53/55 with AGG16.B)	AGG01
	Replacement UV cell for QRA2/-10	AGR450211310
Replacement UV cell for QRA2M/-10M	AGR450240650	
UV blue flame detectors for LGB32... / LME23...		
 QRC1..	UV blue flame detector with plug, 35 cm cable, normal sensitivity, front view	QRC1A1.101C27
	UV blue flame detector with plug, 50 cm cable, normal sensitivity, front view	QRC1A1.103C27
	UV blue flame detector with plug, 50 cm cable, medium sensitivity, front view	QRC1A2.103C27
	UV blue flame detector with plug, 35 cm cable, high sensitivity, front view	QRC1A3.101C27
	UV blue flame detector with plug, 50 cm cable, medium sensitivity, lateral view	QRC1C2.103C27
Accessories for LGB... / LME...		
	PTC dummy load	AGK25
	- for burners without fan using LGB... or LME...	
	RC element	ARC466890660
	- in connection with ionization probes in networks with unearthed neutral conductor	
Replacement of LGB... by LME...		
LGB...	LME...	When replacing LGB... by LME... in connection with UV supervision, auxiliary unit AGQ1...A27 must be replaced by AGQ3...A27.
LGB21.130A27	LME21.130C2	
LGB21.230A27	LME21.230C2	
LGB21.330A27	LME21.330C2	
LGB21.350A27	LME21.350C2	
LGB21.550A27	LME21.550C2	
LGB22.130A27	LME22.131C2	
LGB22.230B27	LME22.232C2	
LGB22.330A27	LME22.331C2	
LGB32.330A27	LME23.331C2	
LGB32.350A27	LME23.351C2	
LGB41.255A27	LME44.056C2	
LGB41.258A27	LME44.057C2	

Gas Burner Controls (for Intermittent Operation)

Type



LFL...

For gas, oil or dual-fuel forced draft burners of medium to high capacity.
Flame supervision with UV detectors QRA... or ionization probe.

LFL1...

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

	Prepurge time	Safety time	Typical application	
Phase-out product	10 s	2 s	Forced draft burners, 2-stage / modulating	LFL1.122
Phase-out product	10 s	3 s	Forced draft burners, 2-stage / modulating	LFL1.133
Phase-out product	14 s	4 s	Large atmospheric burners, 2-stage / ioniz.	LFL1.148
Phase-out product	36 s	2 s	Forced draft burners, 2-stage / modulating	LFL1.322
Phase-out product	31.5 s	3 s	Forced draft burners, 2-stage / modulating	LFL1.333
Phase-out product	37.5 s	2.5 s	Forced draft burners, 2-stage / modulating	LFL1.335
Phase-out product	66 s	2 s	Forced draft burners, 2-stage / modulating	LFL1.622
Phase-out product	67.5 s	2.5 s	Forced draft burners, 2-stage / modulating	LFL1.635
Phase-out product	67.5 s	2.5 s	Large atmospheric burners, 2-stage	LFL1.638

Line voltage/frequency:

100V -15%...110V +10%; 50...60Hz +/-6%

Phase-out product	10s	2s	Forced draft burners, 2-stage / modulating	LFL1.122-110V
Phase-out product	10s	3s	Forced draft burners, 2-stage / modulating	LFL1.133-110V
Phase-out product	36s	2s	Forced draft burners, 2-stage / modulating	LFL1.322-110V
Phase-out product	31,5s	3s	Forced draft burners, 2-stage / modulating	LFL1.333-110V
Phase-out product	37,5s	2,5s	Forced draft burners, 2-stage / modulating	LFL1.335-110V
Phase-out product	66s	2s	Forced draft burners, 2-stage / modulating	LFL1.622-110V
Phase-out product	67,5s	2,5s	Forced draft burners, 2-stage / modulating	LFL1.635-110V

Phase-out product	Plug-in base for LFL... (PG 11)	AGM410490550
Phase-out product	Plug-in base for LFL... (M 16)	AGM14.1



LFE1...

For forced draft gas and dual-fuel burners of any capacity.
Flame supervision with UV detectors QRA... or ionization probe.

LFE1...

Line voltage: AC 220 V -15%...240 V +10%







	Prepurge time	Safety time	Line frequency +/-6%	
Phase-out product	60s	2s/2s	50 Hz	LFE1/8851
Phase-out product	30s	2s/2s	50 Hz	LFE1/8853
Phase-out product	30s	2s/2s	60 Hz	LFE1/8868
Phase-out product	60s	5s/5s	50 Hz	LFE1/8892

Line voltage: 100V -15%...110V +10%

Phase-out product	30s	2s/2s	60 Hz	LFE1/8867
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Phase-out product	Plug-in base for LFE1... (PG 11)	AGG41041713(FE)
Phase-out product	Plug-in base for LFE1... (M 16)	AGG13.1

UV Flame Detectors for LFL... and LFE1/...

		Type	
QRA...			
 QRA2...	UV flame detector, normal sensitivity, without fixing material	QRA2	
	UV flame detector, normal sensitivity, round flange & clamp	QRA2(1)	
	UV flame detector, normal sensitivity, straight flange & clamp	QRA2(2)	
	UV flame detector, high sensitivity, without fixing material	QRA2M	
	UV flame detector, high sensitivity, round flange & clamp	QRA2M(1)	
	UV flame detector, high sensitivity, straight flange & clamp	QRA2M(2)	
	UV flame detector, norm. Sens., w/o fixing mat., for temperature peaks up to 200 °C	QRA2.9	
	Clamp for QRA2... (in packages of 100 pcs)	419988060	
	Flange (round) for QRA2... (in packages of 100 pcs)	424188550	
	Flange (straight) for QRA2... (in packages of 100 pcs)	424188980	
 QRA4.U	IP40-KIT (cable sealing element)	AGG09	
	UV flame detector, front view, with 3/4" -14 NPSM connection, normal sensitivity	QRA4.U	
	UV flame detector, front view, with 3/4" -14 NPSM connection, high sensitivity	QRA4M.U	
	1" / 3/4" mounting adapter with connection for air cooling	AGG04	
AGG04	Heat insulating piece between QRA4... and mounting coupling AGG04	AGG15	
 QRA10...	UV flame detector, normal sensitivity, in aluminium housing with 1" thread	QRA10.C	
	UV flame detector, same as QRA10.C but high sensitivity	QRA10M.C	
	IP65 Kit for QRA10... works with diffent cable sizes	AGG08	
	Heat protection glass (for QRA10.../AGG16...)	AGG02	
	Quartz-glass lens (for QRA10...C/AGG16...C)	AGG03	
	Threaded nipple 1" (for QRA10.../AGG16...)	AGG05	
	 	Glass holder with intermediate ring (for QRA10.../AGG16...)	AGG06
		Ball head (for QRA10.../AGG16...)	AGG07
		Quartz-glass lens (only for QRA10.x B , QRA53/55 with AGG16. B)	AGG01
		Replacement UV cell for QRA2/-10	AGR450211310
Replacement UV cell for QRA2M/-10M	AGR450240650		

Gas Burner Controls (for Continuous Operation)

Type



LGK16...

For gas, oil or dual-fuel forced draft burners of medium to high capacity.
Flame supervision with UV detectors QRA... or ionization probe.

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

LGK16...

	Prepurge time	Safety time	Typical application	
Phase-out product	10s	2s	Forced draft burners, 2-stage / modulating	LGK16.122A27
Phase-out product	9s	3s	Forced draft burners, 2-stage / modulating	LGK16.133A27
Phase-out product	36s	2s	Forced draft burners, 2-stage / modulating	LGK16.322A27
Phase-out product	31,5s	3s	Forced draft burners, 2-stage / modulating	LGK16.333A27
Phase-out product	37,5s	2,5s	Forced draft burners, 2-stage / modulating	LGK16.335A27
Phase-out product	66s	2s	Forced draft burners, 2-stage / modulating	LGK16.622A27
Phase-out product	67,5s	2,5s	Forced draft burners, 2-stage / modulating	LGK16.635A27

Line voltage/frequency:

100V -15%...110V +10%; 50...60Hz +/-6%

	Prepurge time	Safety time	Typical application	
Phase-out product	67,5s	2,5s	Forced draft burners, 2-stage / modulating	LGK16.635A17
Phase-out product	Plug-in base (PG 11)			AGM17
Phase-out product	Plug-in base (M 16)			AGM17.1



LGI16...

For gas, oil or dual-fuel forced draft burners of medium to high capacity.
Flame supervision with UV detectors QRA..., common or separate ionization probe and ignition electrode (single- or double-electrode operation).

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

LGI16...

	Prepurge time	Safety time	Typical application	
Phase-out product	0s	5s	Industrial burners	LG16.053A27
Phase-out product	Plug-in base (PG 11)			AGM15
Phase-out product	Plug-in base (M 16)			AGM15.1

Accessories of LGK16... and LGI16...

Phase-out product	UV detector current measuring instrument for QRA 53../QRA55..	KF8832
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KF8832

Special note on KF8832:

The UV detector current measuring instrument KF8832 serves to optimize the sensor position for new installations or to check burner installations with LGK16... and QRA53../55...

The KF8832 is not approved for continuous operation, only for measurement purposes.

It is not designed for DIN rail or panel mounting.

The KF8832 cannot be used as test equipment for QRA53../QRA55...

Flame Detectors for LGK16... / LGI16...

Type

QRA55...



Line voltage/frequency:

220V -15%...240V +10%; 50...60Hz +/-6%

Phase-out product	UV flame detector (for LGK16.../LGI16...), normal sensitivity, l = 125 mm	QRA53.E27
Phase-out product	UV flame detector (for LGK16.../LGI16...), high sensitivity, l = 125 mm	QRA53.G27
Phase-out product	UV flame detector (for LGK16.../LGI16...), normal sensitivity, l = 69 mm	QRA55.E27
Phase-out product	UV flame detector (for LGK16.../LGI16...), high sensitivity, l = 69 mm	QRA55.G27

Line voltage/frequency:

100V -15%...110V +10%; 50...60Hz +/-6%

Phase-out product	UV flame detector (for LGK16.../LGI16...), normal sensitivity, l = 125 mm	QRA53.E17
Phase-out product	UV flame detector (for LGK16.../LGI16...), high sensitivity, l = 125 mm	QRA53.G17
Phase-out product	UV flame detector (for LGK16.../LGI16...), normal sensitivity, l = 69 mm	QRA55.E17
Phase-out product	UV flame detector (for LGK16.../LGI16...), high sensitivity, l = 69 mm	QRA55.G17

Cross Reference List

old type	new type
QRA53.C27	QRA53.E27
QRA53.D27	QRA53.G27
QRA55.C27	QRA55.E27
QRA55.D27	QRA55.G27
QRA53.C17	QRA53.E17
QRA53.D17	QRA53.G17
QRA55.C17	QRA55.E17
QRA55.D17	QRA55.G17

Phase-out product

Connecting cable with plug for QRA53.../QRA55... **AGM19**



Replacement UV cell for QRA53.../55...

AGR450240650

UV cell



Angled adapter for QRA53.../55... with mounting coupling

AGG16.C

AGG16.C

Burner Controls for High Capacity, Intermittent or Continuous Operation

Type

LEC1...

Control unit for double- or multiframe supervision of oil, gas or forced draft oil/
gas burners of any fuel throughput, suited for continuous or intermittent operation
(for intermittent operation with flame safeguard LAE10/LFE10)
(for continuous operation with flame safeguard LFE50 and UV flame detector QRA50M/51M)



LEC1...

Line voltage:

AC 220 V -15%...240 V +10%

Prepurge time Safety time Line frequency +/-6%

Phase-out product	17 s	2 s/2 s	50 Hz	LEC1.1/8854
Phase-out product	60 s	2 s/2 s	50 Hz	LEC1/8851
Phase-out product	30 s	2 s/2 s	50 Hz	LEC1/8853
Phase-out product	30 s	2 s/2 s	60 Hz	LEC1/8868
Phase-out product	60 s	5 s/5 s	50 Hz	LEC1/8892
Phase-out product	30 s	2 s/5 s	50 Hz	LEC1/8906
Phase-out product	60 s	4.5 s/4.5 s	50 Hz	LEC1/9500

Phase-out product	Plug-in base (PG 11)	AGG41041713(EC)
Phase-out product	Plug-in base (M 16)	AGG12.1

LAE/LFE... - Flame safeguards for LEC1...



LAE/LFE10

Intermittent operation

Flame safeguards for burners with intermittent operation.

The LAE10 is used for the supervision and indication of oil flames.

The LFE10 is used for the supervision and indication of gas and oil flames.

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

Phase-out product	For oil burners	LAE10
Phase-out product	For gas or dual-fuel burners	LFE10

Line voltage/frequency:

100V -15%...110V +10% ; 50...60Hz +/-6%

Phase-out product	For oil burners	LAE10-110V
Phase-out product	For gas or dual-fuel burners	LFE10-110V

Phase-out product	Low plug-in base for LAE/LFE10	AGK410413450
Phase-out product	High plug-in base for LAE/LFE10	AGK410490250

Continuous operation

The LFE50... together with the QRA50M/QRA51M form a self-checking UV flame supervision system (DETECTOGR®) designed for use with continuously operating oil or gas burners or burners operating without interruption for more than 24 hours.



LFE50

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

Phase-out product	For gas or dual-fuel burners	LFE50
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100V -15%...110V +10%; 50...60Hz +/-6%

Phase-out product	For gas or dual-fuel burners	LFE50-110V
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(incl. plug-in base)

Flame Safeguard LFS1 (up to SIL3) for Intermittent or Continuous Operation



Flame safeguard with approval for continuous operation for the supervision of oil flames and gas flames in applications with an ionization probe and a photocell detector RAR9. Flame safeguard for intermittent operating mode with UV flame detectors QRA2 /QRA4 / QRA10.

LFS1...

For oil, 230V, to be combined w/ RAR9, BCI connection, output 0...10V Comparable w/ LAE10*	LFS1.11A2
For gas/oil, 230V, to be combined w/ ION or QRA2/4/10, BCI connection, output 0...10V Comparable w/ LFE10*	LFS1.21A2
For oil, 120V, to be combined w/ RAR9, BCI connection, output 0...10V Comparable w/ LAE10-110V	LFS1.11A1
For gas/oil, 120V, to be combined w/ ION or QRA2/4/10, BCI connection, output 0...10V Comparable w/ LFE10-110V*	LFS1.21A1



AGK11.7

New

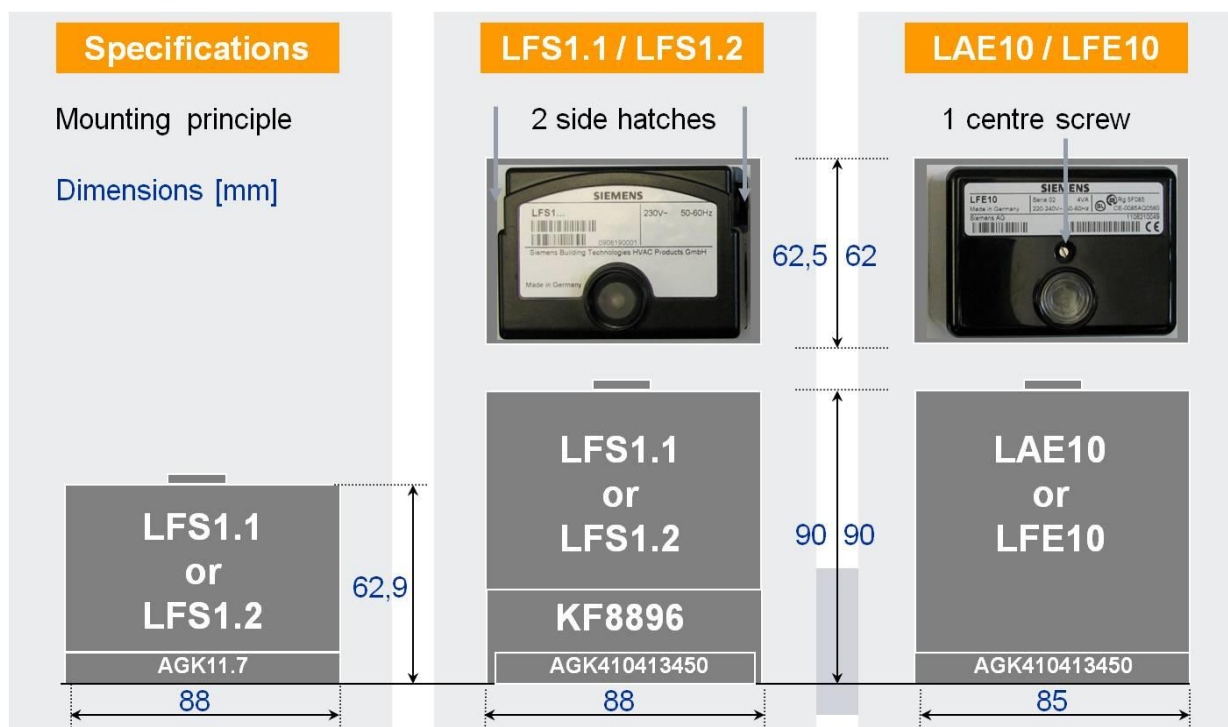
AGK30










Plug-in base of LFS1... (with separating plate to ensure safe separation)	AGK11.7
Cable gland holder (PG11 threads) for AGK11.7	AGK65
Cable gland holder (M16 x 1.5 threads) for AGK11.7	AGK65.1
Cable holder with knockout holes for AGK11.7	AGK66
AGK30: For establishing compatibility of the LFS1.2 with QRA2M and QRA10M for AGK11.7	S55856-Z301-A100
Optical interface between flame safeguard and PC	OCI400
BCI-interface between flame safeguard and PC, diagnosis version (PC software ACS410)	OCI410.20
same as above, but heating engineer version	OCI410.30
same as above, but OEM version	OCI410.40
Commissioning and visualization software for LFS1...	ACS410
Modbus converter or BCI interface converter	OCI412.10
Adapter for replacing LAE10 and LFE10 with LFS1... (same height & correct terminals)	KF8896

*Replacement of LAE/LFE10 by LFS1:






LFE10/LAE10 type old	LFS type new	Mains voltage	Adapter needed for replacement in existing installations (in that case AGK11, AGK65/66 is not needed, see below)	Application
LFE10	LFS1.21A2	AC 230 V	KF8896	Gas / Oil
LFE10-110V	LFS1.21A1	AC 120 V	KF8896	Gas / Oil
LAE10	LFS1.11A2	AC 230 V	KF8896	Oil
LAE10-110V	LFS1.11A1	AC 120 V	KF8896	Oil



Flame Detectors for Flame Safeguards LFS1, LAE10, LFE10 & LFE50

		Type
Flame detectors for LAE10 (intermittent operation)		
 RAR..	Silicon photo cell, without fixing mat., maximum cable length 100m	RAR9
	Silicon photo cell, flange w/ radius & clamp, maximum cable length 100m	RAR9(1)
	Silicon photo cell, with straight flange & clamp, maximum cable length 100m	RAR9(2)
	Clamp for RAR... (in packages of 100 pcs)	419988060
	Flange (round) for RAR (in packages of 100 pcs)	424188550
	Flange (straight) for RAR (in packages of 100 pcs)	424188980
	IP40-KIT (cable sealing element)	AGG09
UV flame detectors for LAE10 (intermittent operation)		
 QRA2...	UV flame detector, normal sensitivity, without fixing material	QRA2
	UV flame detector, normal sensitivity, round flange & clamp	QRA2(1)
	UV flame detector, normal sensitivity, straight flange & clamp	QRA2(2)
	UV flame detector, high sensitivity, without fixing material	QRA2M
	UV flame detector, high sensitivity, round flange & clamp	QRA2M(1)
	UV flame detector, high sensitivity, straight flange & clamp	QRA2M(2)
	UV flame detector, norm. sens., w/o fixing mat., for temperature peaks up to 200 °C	QRA2.9
	Clamp for QRA2... (in packages of 100 pcs)	419988060
	Flange (round) for QRA2... (in packages of 100 pcs)	424188550
	Flange (straight) for QRA2... (in packages of 100 pcs)	424188980
 QRA4.U	UV flame detector, front view, with 3/4" -14 NPSM connection, normal sensitivity	QRA4.U
	UV flame detector, front view, with 3/4" -14 NPSM connection, high sensitivity	QRA4M.U
 AGG04	1" / 3/4" mounting adapter with connection for air cooling	AGG04
	Heat insulating piece between QRA4... and mounting coupling AGG04	AGG15
 QRA10...	UV flame detector, normal sensitivity, in aluminium housing with 1" thread	QRA10.C
	UV flame detector, same as QRA10.C but high sensitivity	QRA10M.C
	IP65 Kit for QRA10... works with different cable sizes	AGG08
	Heat protection glass (for QRA10.../AGG16...)	AGG02
	Quartz-glass lens (for QRA10...C/AGG16...C)	AGG03
	Threaded nipple 1" (for QRA10.../AGG16...)	AGG05
	Glass holder with intermediate ring (for QRA10.../AGG16...)	AGG06
	Ball head (for QRA10.../AGG16...)	AGG07
	Quartz-glass lens (only for QRA10.x B , QRA53/55 with AGG16 B)	AGG01
	Replacement UV cell for QRA2/-10	AGR450211310
Replacement UV cell for QRA2M/-10M	AGR450240650	
UV flame detectors for LFE50 (continuous operation)		
 QRA50M Phase-out product	UV flame detector (for LFE50), front view	QRA50M
	UV flame detector (for LFE50), lateral view	QRA51M
 QRA51M	Replacement UV cell for QRA50M	AGR450242680
	Replacement UV cell for QRA2M / -10M / -51M / -53 / -55	AGR450240650

Adapters and Accessories

		Type
	Adapters for burner controls	
KF88**	Adapter for replacement of LAI/LAB by LOA24.../LMO1/2...	KF8819
Phase-out product	Adapter for replacement of LFI7 by LGB21..., LME21...	KF8852
Phase-out product	Adapter for replacement of LFI7 by LGB22..., LME22...	KF8853-K
Phase-out product	Adapter for replacement of LFM1... by LGB21/LGB22	KF8880
	Caution: Replacing a burner control by a different type in an existing installation requires approval by the burner manufacturer	
	Service adapters for burner controls	
	For LOA..., with current measurement	KF8833
	For LOA..., with resistance measurement	KF8840
	For LGB..., with current measurement	KF8872
KF8833		
	For LOA..., with jack for detector current	KF8885
KF8840		
	Service and diagnostics tool for burner controls LME.../LMO.../LFS1...	
	PC software for burner diagnostics with LME.../LMO.../LFS1... (Interface OCI400 required!)	ACS410
OCI 400	Interface for PC software ACS410	OCI400

SQN3...

Electromotoric actuators for use with air dampers and control valves for oil or gas burners of small to medium capacity.

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

Running time at 50 Hz; running times at 60 Hz are about 17% shorter

Reversible, 2 end switches, 2 or 3 auxiliary switches



SQN3..

Running time 90°	Torque	specified for	
<i>Counterclockwise rotation</i>			
<i>When facing the drive shaft and when control voltage is fed to end switch I</i>			
4,5s	1,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN30.102A2700
4,5s	1,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN30.111A2700
4,5s	1,0 Nm	LGB21... , LME21...	SQN30.121A2700
4,5s	1,0 Nm	LGB22.../LGB32.../LME22.../LME23...	SQN30.151A2700
30s	3,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN30.401A2700
30s	3,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN30.401A2730
30s	3,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN30.402A2700
30s	3,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN30.402A2730
<i>Clockwise rotation</i>			
<i>When facing the drive shaft and when control voltage is fed to end switch I</i>			
4,5s	1,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN31.101A2700
4,5s	1,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN31.111A2700
4,5s	1,0 Nm	LGB21.../LME21.../LOA24.../LMO24.../LMO44...	SQN31.121A2700
4,5s	1,0 Nm	LGB22.../LGB32.../LME22.../LME23...	SQN31.151A2700
12s	1,8 Nm	LGB21.../LME21.../LOA24.../LMO24.../LMO44...	SQN31.221A2700
12s	1,8 Nm	LGB22.../LGB32.../LME22.../LME23...	SQN31.251A2700
30s	3,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN31.401A2700
30s	3,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN31.411A2700

Line voltage/frequency:

100V -15%...110V +10%; 50...60Hz +/-6%

Running time at 50 Hz; running times at 60 Hz are about 17% shorter

Reversible, 2 end switches, 2 or 3 auxiliary switches

Running time 90°	Torque	specified for	
<i>Counterclockwise rotation</i>			
<i>When facing the drive shaft and when control voltage is fed to end switch I</i>			
4,5s	1,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN30.111A1700
4,5s	1,0 Nm	LGB21.../LME21.../LOA24.../LMO24.../LMO44...	SQN30.121A1700
4,5s	1,0 Nm	LGB22.../LGB32.../LME22.../LME23...	SQN30.151A1700
30s	3,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN30.402A1700
<i>Clockwise rotation</i>			
<i>When facing the drive shaft and when control voltage is fed to end switch I</i>			
4,5s	1,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN31.101A1700
4,5s	1,0 Nm	LGB22.../LGB32.../LME22.../LME23...	SQN31.151A1700
12s	1,8 Nm	LGB22.../LGB32.../LME22.../LME23...	SQN31.251A1700
30s	3,0 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN31.401A1700

SQN7...

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

Running time at 50 Hz; running times at 60 Hz are about 17% shorter

Reversible, 2 end switches, 2 or 3 auxiliary switches



SQN70..

Running time 90°	Torque	specified for	
<i>Counterclockwise rotation</i>			
<i>When facing the drive shaft and when control voltage is fed to end switch I</i>			
4s	1,5 Nm	LGB21.../LME21.../LOA24.../LMO24.../LMO44...	SQN70.244A20
12s	2,5 Nm	LGB22.../LGB32.../LME22.../LME23...	SQN70.424A20
12s	2,5 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN70.464A23
30s	2,5 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN70.664A20
30s	2,5 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN70.664A23

Gas/Air Damper Actuators

Type

SQN7...



Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

Running time at 50 Hz; running times at 60 Hz are about 17% shorter

Reversible, 2 end switches, 2 or 3 auxiliary switches, protection IP54

SQN71..

Running time 90°

Nominal Torque

specified for

Clockwise rotation

When facing the drive shaft and when control voltage is fed to end switch I

4s	1.5 Nm	LGB21.../LME21.../LOA24.../LMO24.../LMO44...	SQN71.244A20
4s	1.5 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN71.264A20
30s	2.5 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN71.664A20
30s	2.5 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN71.669A23

SQN72, IP54

Counterclockwise rotation

When facing the drive shaft and when control voltage is fed to end switch I

4s	1.5 Nm	LME22...	SQN72.2A4A20
12s	2.5 Nm	LME22...	SQN72.4A4A20
12s	2.5 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN72.4C4A21
4s	1.5 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN72.2C4A20
30s	2.5 Nm	LFL.../LGK.../LAL.../LOK.../LME7...	SQN72.6C4A21

Cover AGA34 for SQN70.../SQN71... backfitting with potentiometer ASZxx.3x **AGA34**

SQN75..

30s 1,3 Nm for different control devices

SQN75.6K4A21

SQM1.../SQM2...



Line voltage/frequency:

220V -15%...240V +10%; 50...60Hz +/-6%

Running time at 50 Hz; running times at 60 Hz are about 17% shorter

Reversible, 2 end switches, 4 or 5 auxiliary switches

SQM10/20..

Counterclockwise rotation

When facing the drive shaft and when control voltage is fed to end switch I

Phase-out product	14s	10 Nm	modul., LFL.../LGK.../LAL.../LOK.../LME7...	SQM10.15502
Phase-out product	29s	10 Nm	modul., LFL.../LGK.../LAL.../LOK.../LME7...	SQM10.16502
Phase-out product	70s	10 Nm	modul., LFL.../LGK.../LAL.../LOK.../LME7...	SQM10.17502
Phase-out product	29s	20 Nm	modul., LFL.../LGK.../LAL.../LOK.../LME7... (*)	SQM20.16502
Phase-out product	45s	20 Nm	modul., LFL.../LGK.../LAL.../LOK.../LME7... (*)	SQM20.18502

Clockwise rotation

When facing the drive shaft and when control voltage is fed to end switch I

Phase-out product	29s	20 Nm	modul., LFL.../LGK.../LAL.../LOK.../LME7... (*)	SQM21.16502
Phase-out product	45s	20 Nm	modul., LFL.../LGK.../LAL.../LOK.../LME7... (*)	SQM21.18502

(* 12 mm instead of 10 mm shaft)

Line voltage/frequency:

100V -15%...110V +10%; 50...60Hz +/-6%

Running time at 50 Hz; running times at 60 Hz are about 17% shorter

Reversible, 2 end switches, 4 or 5 auxiliary switches

Running time 90°

Torque

specified for

Clockwise rotation

Phase-out product	45s	20 Nm	modul., LFL.../LGK.../LAL.../LOK.../LME7... (*)	SQM21.18501
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(* 12 mm instead of 10 mm shaft)

Gas/Air Damper Actuators



SQM4...

	Type
<u>SQM40.../SQM41...</u>	
<u>230V, Ø 10mm, woodruff key DIN 6888</u>	
Actuator counterclockwise, 90°, 5 Nm, 15s, electronic version 4, 3 switches, shaft 10mm with woodruff key, European version, 230VAC, double potentiometer	SQM40.141A21
Actuator counterclockwise, 135°, 5 Nm, 15s, switch version 6, 6 switches, shaft 10mm with woodruff key, European version, 230VAC, no potentiometer	SQM40.161A20
Actuator counterclockwise, 90°, 10 Nm, 30s, electronic version 4, 3 switches, shaft 10mm with woodruff key, European version, 230VAC, double potentiometer	SQM40.241A21
Actuator clockwise, 90°, 10 Nm, 30s, electronic version 4, 3 switches, shaft 10mm with woodruff key, European version, 230VAC, double potentiometer	SQM41.241A21
Actuator counterclockwise, 135°, 10 Nm, 30s, switch version 6, 6 switches, shaft 10mm with woodruff key, European version, 230VAC, no potentiometer	SQM40.261A20
Actuator counterclockwise, 90°, 10 Nm, 30s, switch version 6, 6 switches, shaft 10mm with woodruff key, European version, 230VAC, double potentiometer	SQM40.261A21
Actuator clockwise, 90°, 10 Nm, 30s, switch version 6, 6 switches, shaft 10mm with woodruff key, European version, 230VAC, double potentiometer	SQM41.261A21
Actuator counterclockwise 135°, 10 Nm, 30s, switch version 8, 6 switches, shaft 10mm with woodruff key, European, version 230VAC, no potentiometer.	SQM40.281A20
<u>230V, Ø 9,5 mm square</u>	
Actuator counterclockwise, 90°, 10 Nm, 30s, electronic version 4, 3 switches, shaft 9.5mm square, European version, 230VAC, double potentiometer	SQM40.244A21
Actuator clockwise, 90°, 10 Nm, 30s, electronic version 4, 3 switches, shaft 9.5mm square, European version, 230VAC, double potentiometer	SQM41.244A21
Actuator clockwise, 90°, 10 Nm, 30s, switch version 6, 6 switches, shaft 9.5mm square, European version, 230VAC, double potentiometer	SQM41.264A21
Actuator clockwise 90°, 10 Nm, 30s, electronic version 5, 4 switches, shaft 9.5mm square, US version, 120VAC, double potentiometer.	SQM41.254R11
<u>230V, Ø 10mm "D" shaft</u>	
Actuator counterclockwise 90°, 2.5 Nm, 5s, electronic version 2, 4 switches, shaft 10mm "D" type, European version, 230VAC, double potentiometer	SQM40.025A21
Actuator counterclockwise 135°, 2.5 Nm, 5s, switch version 6, 6 switches, shaft 10mm "D" type, European version, 230VAC, double potentiometer	SQM40.065A23
Actuator counterclockwise 90°, 5 Nm, 15s, electronic version 1, 3 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.115R11
Actuator counterclockwise 135°, 5 Nm, 15s, electronic version 1, 3 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.115R13
Actuator counterclockwise, 90°, 5 Nm, 15s, electronic version 4, 3 switches, shaft 10mm "D" type, European version, 230VAC, double potentiometer	SQM40.145A21
Actuator clockwise, 90°, 5 Nm, 15s, electronic version 4, 3 switches, shaft 10mm "D" type, European version, 230VAC, double potentiometer	SQM41.145A21
Actuator counterclockwise 90°, 5 Nm, 15s, electronic version 5, 4 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.155R11
Actuator counterclockwise 135°, 5 Nm, 15s, electronic version 5, 4 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.155R13
Actuator counterclockwise, 135°, 5 Nm, 15s, switch version 6, 6 switches, shaft 10mm "D" type, European version, 230VAC, no potentiometer	SQM40.165A20
Actuator counterclockwise, 90°, 5 Nm, 15s, switch version 6, 6 switches, shaft 10mm "D" type, European version, 230VAC, double potentiometer	SQM40.165A21
Actuator counterclockwise 90°, 5 Nm, 15s, switch version 8, 6 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.185R11
Actuator clockwise 90°, 5 Nm, 15s, switch version 8, 6 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM41.185R11
Actuator counterclockwise 90°, 10 Nm, 30s, electronic version 1, 3 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.215R11
Actuator counterclockwise 135°, 10 Nm, 30s, electronic version 1, 3 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.215R13
Actuator counterclockwise 135°, 10 Nm, 30s, switch version 3, 4 switches, shaft 10mm "D" type, European version, 230VAC, no potentiometer	SQM40.235A20



SQM4...

SQM40.../SQM41...

230V, Ø 10mm "D" shaft

Actuator counterclockwise, 90°, 10 Nm, 30s, electronic version 4, 3 switches, shaft 10mm "D" type, European version, 230VAC, double potentiometer	SQM40.245A21
Actuator clockwise, 90°, 10 Nm, 30s, electronic version 4, 3 switches, shaft 10mm "D" type, European version, 230VAC, double potentiometer	SQM41.245A21
Actuator counterclockwise 90°, 10 Nm, 30s, electronic version 5, 4 switches, shaft 10mm "D" type, European version, 230VAC, double potentiometer	SQM40.255A21
Actuator counterclockwise 90°, 10 Nm, 30s, electronic version 5, 4 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.255R11
Actuator counterclockwise 135°, 10 Nm, 30s, electronic version 5, 4 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.255R13
Actuator counterclockwise, 135°, 10 Nm, 30s, switch version 6, 6 switches, shaft 10mm "D" type, European version, 230VAC, no potentiometer	SQM40.265A20
Actuator counterclockwise, 90°, 10 Nm, 30s, switch version 6, 6 switches, shaft 10mm "D" type, European version, 230VAC, double potentiometer	SQM40.265A21
Actuator counterclockwise 135°, 10 Nm, 30s, switch version 7, 5 switches, changeover relay, shaft 10mm "D" type, European version 230VAC, no potentiometer	SQM40.275A20
Actuator counterclockwise 135°, 10 Nm, 30s, switch version 7, 5 switches, shaft 10mm "D" type, US version, 120VAC, no potentiometer	SQM40.275R10
Actuator clockwise 135°, 10 Nm, 30s, switch version 7, 5 switches, shaft 10mm "D" type, US version, 120VAC, no potentiometer	SQM41.275R10
Actuator counterclockwise 90°, 10 Nm, 30s, switch version 8, 6 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM40.285R11
Actuator clockwise 90°, 10 Nm, 30s, switch version 8, 6 switches, shaft 10mm "D" type, US version, 120VAC, double potentiometer	SQM41.285R11

230V, Ø 14mm with parallel key

Actuator counterclockwise, 90°, 10 Nm, 30s, electronic version 4, 3 switches, shaft 14mm with parallel key, European version, 230VAC, double potentiometer	SQM40.247A21
Actuator counterclockwise, 135°, 10 Nm, 30s, switch version 6, 6 switches, shaft 14mm with parallel key, European version, 230VAC, no potentiometer	SQM40.267A20
Actuator counterclockwise 135°, 18 Nm, 65s, electronic version 1, 3 switches, shaft 14mm with parallel key, European version, 230VAC, double potentiometer	SQM40.317A23
Actuator counterclockwise 90°, 18 Nm, 65s, electronic version 1, 3 switches, shaft 14mm with parallel key, US version, 120VAC, double potentiometer	SQM40.317R11
Actuator counterclockwise 135°, 18 Nm, 65s, electronic version 1, 3 switches, shaft 14mm with parallel key, US version, 120VAC, double potentiometer	SQM40.317R13
Actuator clockwise 135°, 18 Nm, 65s, electronic version 5, 4 switches, shaft 14mm with parallel key, European version, 230VAC, double potentiometer	SQM41.357A23
Actuator counterclockwise 90°, 18 Nm, 65s, electronic version 5, 4 switches, shaft 14mm with parallel key, US version, 120VAC, double potentiometer	SQM40.357R11
Actuator clockwise 90°, 18 Nm, 65s, electronic version 5, 4 switches, shaft 14mm with parallel key, US version, 120VAC, double potentiometer	SQM41.357R11
Actuator counterclockwise 135°, 18 Nm, 65s, electronic version 5, 4 switches, shaft 14mm with parallel key, US version, 120VAC, double potentiometer	SQM40.357R13
Actuator counterclockwise 135°, 18 Nm, 65s, switch version 6, 6 switches, shaft 14mm with parallel key, European version, 120VAC, without potentiometer	SQM40.367A10
Actuator clockwise 90°, 18 Nm, 65s, switch version 6, 6 switches, shaft 14mm with parallel key, European version, 230VAC, double potentiometer	SQM41.367A21
Actuator counterclockwise 135°, 18 Nm, 65s, switch version 8, 6 switches, shaft 14mm with parallel key, European version, 230VAC, no potentiometer	SQM40.387A20
Actuator counterclockwise 135°, 18 Nm, 65s, switch version 8, 6 switches, shaft 14mm with parallel key, European version, 230VAC, double potentiometer	SQM40.387A23
Actuator counterclockwise 90°, 18 Nm, 65s, switch version 8, 6 switches, shaft 14mm with parallel key, US version, 120VAC, double potentiometer	SQM40.387R11
Actuator clockwise 90°, 18 Nm, 65s, switch version 8, 6 switches, shaft 14mm with parallel key, US version, 120VAC, double potentiometer	SQM41.387R11



SQM5..

SQM5...

Reversible electromotoric actuators delivering torques up to 40 Nm.

Running times from 10 to 90 seconds.

With 1 or 2 drive shaft ends,

Drive shafts are available as separate items and can be exchanged.

Can be equipped with electronic modules for control and position indication.

Internal and external position indication.

Drive shaft and cam shaft can be separately disengaged.

On request UL-listed types for use in the U.S. and Canada.

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

Running time at 50 Hz; running times at 60 Hz are about 17% shorter

Reversible, 2 end switches, 2 auxiliary switches

Running time/90°	Torque	Drive shaft	
30 s/90°	10 Nm	Ø 10 mm	SQM50.441A2

Reversible, 2 end switches, 6 auxiliary switches

Running time/90°	Torque	Drive shaft	
15 s/90°	10 Nm	no shaft	SQM50.380A2
15 s/90°	10 Nm	Ø 10 mm	SQM50.381A2
15 s/90°	15 Nm	Ø 14 mm	SQM50.387A2
30 s/90°	10 Nm	Ø 10 mm	SQM50.481A2
30 s/90°	15 Nm	Ø 12 mm	SQM50.482A2
60 s/90°	10 Nm	Ø 10 mm	SQM50.681A2
30s /90°	20 Nm	Ø 12 mm	SQM53.482A2
30s /90°	25 Nm	□ 12 mm	SQM53.489A2
45s /90°	20 Nm	Ø 12 mm	SQM53.582A2
30 s/90°	25 Nm	no shaft	SQM54.480A2
30 s/90°	20 Nm	Ø 12 mm	SQM54.482A2
45s /90°	25 Nm	no shaft	SQM54.580A2
60 s/90°	40 Nm	no shaft	SQM56.680A2
60 s/90°	40 Nm	Ø 14 mm	SQM56.687A2

Reversible, 2 end switches, 6 auxiliary switches, potentiometer 1 kOhm (2 x 1 kOhm = "Dp")

Running time/90°	Torque	Drive shaft	
60 s/90°	40 Nm	Ø 14 mm	SQM56.687A203
<i>same as above, but high accuracy for use with fuel/air ratio controls</i>			
30 s/90°	20 Nm	Ø 10 mm	SQM54.481A203
30 s/90°	20 Nm	Ø 12 mm	SQM54.482A203
30 s/90° (Dp)	20 Nm	Ø 12 mm	SQM54.482A207

Reversible, 2 end switches, 4 auxiliary switches

Analogue module 4..20 mA and potentiometer 1 kOhm

Running time/90°	Torque	Drive shaft	
10 s/90°	10 Nm	no shaft	SQM50.260A2G4
<i>with 6 auxiliary switches</i>			
15 s/90°	10 Nm	Ø 10 mm	SQM50.381A2G3
15 s/90°	15 Nm	Ø 14 mm	SQM50.387A2G3
30 s/90°	15 Nm	no shaft	SQM50.480A2G3
30 s/90°	10 Nm	Ø 10 mm	SQM50.481A2G3
60 s/90°	30 Nm	□ 9.5 mm	SQM56.684A2G4

Gas/Air Damper Actuators

Type

SQM5.... cont'd



SQM5..

Line voltage/frequency:

AC 220 V -15%...240 V +10%; 50...60 Hz +/-6%

Reversible, 2 end switches, no auxiliary switch

Multifunctional module DC 0...10 V, 0/4...20 mA, 135W and potentiometer 2 x 1 kOhm

Running time/90°	Torque	Drive shaft
30 s/90°	15 Nm	□ 9.5 mm

SQM50.424A2Z7

Reversible, 2 end switches, 4 auxiliary switches

Multifunctional module DC 0...10 V, 0/4...20 mA, 135W and potentiometer 1 kOhm

Running time/90°	Torque	Drive shaft
10 s/90°	10 Nm	no shaft

SQM50.260A2Z3

New product

Reversible, 2 end switches, 6 auxiliary switches

Multifunctional module DC 0...10 V, 0/4...20 mA, 135W and potentiometer 1 kOhm

Running time/90°	Torque	Drive shaft
30 s/90°	15 Nm	no shaft
30 s/90°	10 Nm	Ø 10 mm
30 s/90°	15 Nm	□ 9 mm
30 s/90°	20 Nm	Ø 12 mm
30 s/90°	20 Nm	Ø 12 mm
60 s/90°	40 Nm	Ø 14 mm

SQM50.480A2Z3

SQM50.481A2Z3

SQM50.483A2Z3

SQM53.482A2Z3

SQM54.482A2Z3

SQM56.687A2Z3

Line voltage/frequency:

AC 110 V -15%/+10%; 50...60 Hz +/-6%

Running time at 50 Hz; running times at 60 Hz are about 17% shorter

Reversible, 2 end switches, 6 auxiliary switches

Running time/90°	Torque	Drive shaft
15 s/90°	15 Nm	no shaft
30 s/90°	15 Nm	no shaft
30 s/90°	25 Nm	no shaft
30 s/90°	20 Nm	Ø 12 mm

SQM50.380A1

SQM50.480A1

SQM53.480A1

SQM54.482A1

Reversible, 2 end switches, 6 auxiliary switches

Multifunctional module DC 0...10 V, 0/4...20 mA, 135W and potentiometer 1 kOhm

Running time/90°	Torque	Drive shaft
30 s/90°	15 Nm	no shaft
30 s/90°	20 Nm	Ø 12 mm

SQM50.480A1Z3

SQM53.482A1Z3

Line voltage/frequency:

AC 24 V -15%/+10%; 50...60 Hz +/-6%

Running time at 50 Hz; running times at 60 Hz are about 17% shorter

Reversible, 2 end switches, 2 auxiliary switches

Running time/90°	Torque	Drive shaft
45s /90°	15 Nm	□ 9 mm

SQM50.543A8

Reversible, 2 end switches, 6 auxiliary switches

Running time/90°	Torque	Drive shaft
30 s/90°	15 Nm	□ 9 mm
60 s/90°	40 Nm	Ø 14 mm

SQM50.483A8

SQM56.687A8

Reversible, 2 end switches, 6 auxiliary switches

Multifunctional module DC 0...10 V, 0/4...20 mA, 135W and potentiometer 1 kOhm





Running time/90°	Torque	Drive shaft
30 s/90°	15 Nm	□ 9 mm

SQM50.483A8Z3

Additional types on request


Type

Accessories for actuators SQM1x... / 2x... / 4x.../5x... and SQN3x... / SQN7x...

	ASZ... conversion kit AGA32 for SQN3... For converting a basic type of actuator to a version for fitting a potentiometer	AGA32
	Potentiometer 1000 Ohm, 90°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ12.703
ASZ12.8...	Potentiometer 1000 Ohm, 135°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ12.733
	Conductive plastic potentiom. 1000 Ohm, 90°, for SQM1.../2.../5... & SQN7...	ASZ12.30
	Conductive plastic potentiom. 1000 Ohm, 135°, for SQM1.../2.../5... & SQN7...	ASZ12.33
ASZ12.3...	Conductive plastic potentiom. 1000 Ohm, 90°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ12.803
	Conductive plastic potentiom. 1000 Ohm, 135°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ12.833
	Potentiometer 135 Ohm, 90°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ16.703
	Potentiometer 135 Ohm, 135°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ16.733
	Potentiometer 2 x 1000 Ohm, 90°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ22.703
	Potentiometer 2 x 1000 Ohm, 135°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ22.733
	Conductive plastic potentiometer 2 x 1000 Ohm, 90°, for SQM1.../2.../5... & SQN7...	ASZ22.30
	Conductive plastic potentiometer 2 x 1000 Ohm, 90°, for SQM40... & SQM41...	ASZ22.32
	Conductive plastic potentiometer 2 x 1000 Ohm, 135°, for SQM1.../2.../5... & SQN7...	ASZ22.33
	Conductive plastic potentiometer 2 x 1000 Ohm, 135°, for SQM41...	ASZ22.34
	Conductive plastic potentiometer 2 x 1000 Ohm, 135°, for SQM40...	ASZ22.35
ASZ22.8...	Conductive plastic potent. 2 x 1000 Ohm, 90°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ22.803
	Conductive plastic potent. 2 x 1000 Ohm, 135°, for SQM1.../2.../5... & SQN3.../4.../9...	ASZ22.833

Additional types on request

Electronic modules for SQM5x..

	Manual control	AGA56.1A97
AGA56...	Control input 4...20 mA for 230V actuators	AGA56.41A27
	Control input 4...20 mA for 110V actuators	AGA56.41A17
	Control input 4...20 mA for 24V actuators	AGA56.41A87
	Control input 0 ...135 Ohm for 230V actuators	AGA56.42A27
	Control input 0 ...135 Ohm for 110V actuators	AGA56.42A17
	Control input 0 ...135 Ohm for 24V actuators	AGA56.42A87
	Control input 0...10V DC for 230V actuators	AGA56.43A27
	Control input 0...10V DC for 110V actuators	AGA56.43A17
	Control input 0...10V DC for 24V actuators	AGA56.43A87
	Multifunctional module DC 0...10 V, 0/4...20 mA, 135W for 230V actuators	AGA56.9A27
	Multifunctional module DC 0...10 V, 0/4...20 mA, 135W for 110V actuators	AGA56.9A17
	Multifunctional module DC 0...10 V, 0/4...20 mA, 135W for 24V actuators	AGA56.9A87


Mounting brackets

SQM 5... adapter for SQM10.../SQM20...	AGA57.1
SQM 5... adapter for ME8	AGA57.2
SQM 5... adapter for Honeywell Mod. III actuator	AGA57.3

Drive shafts

Ø 10 mm	≤ 10 Nm		AGA58.1
Ø 12 mm	≤ 20 Nm		AGA58.2
□ 9 mm ds	≤ 25 Nm	ds = double sided	AGA58.3
□ 9.5 mm ds	≤ 30 Nm		AGA58.4
D 10mm	≤ 10 Nm		AGA58.5
Ø 14 mm	≤ 40 Nm		AGA58.7
□ 12 mm	≤ 30 Nm		AGA58.9

NEMA 4 kit

	AGA55.5
- For sealing the drive shafts, thus improving the degree of protection	
- Drive shaft seals on both sides for actuators SQM5...	
- Packed as a kit together with O-rings and fixing screws	

Butterfly Valves

Type

VKF41...C



VKF...C

Disk with metal-to-metal seating, angle of rotation 85°, maintenance-free.

Suited for use with gases of families I...III and air.

Disk and spindle are made of stainless steel. Valve disk closes against end stop.

Butterfly valve DN 40	VKF41.40C
Butterfly valve DN 50	VKF41.50C
Butterfly valve DN 65	VKF41.65C
Butterfly valve DN 80	VKF41.80C
Butterfly valve DN 100	VKF41.100C
Butterfly valve DN 125	VKF41.125C
Butterfly valve DN 150	VKF41.150C
Butterfly valve DN 200	VKF41.200C

Mounting kit for SQM5x.xx1Ax... and VKF41...
in connection with drive shaft AGA58.1 (10 Nm) only

ASK33.9

VKF41...H



VKF...H

Swing-through disk, angle of rotation 90°, maintenance-free.

Only suited for use with non-aggressive flue gases and air up to +200 °C.

Disk and spindle are made of stainless steel.

Butterfly valve DN 65	VKF41.65H	S55592-G207-A100
Butterfly valve DN 80	VKF41.80H	S55592-G208-A100
Butterfly valve DN 100	VKF41.100H	S55592-G209-A100
Butterfly valve DN 125	VKF41.125H	S55592-G210-A100
Butterfly valve DN 150	VKF41.150H	S55592-G211-A100
Butterfly valve DN 200	VKF41.200H	S55592-G212-A100

Mounting kit* for actuator SQM33, SQM40, SQM45 or SQM50 (with drive shaft AGA58.5)
onto the butterfly valve VKF41.xxxH

ASK33.4

*The mounting kit (e.g. ASK33.4) is designed for temperatures up to a maximum of 60 °C.

VKF



VKF10

Swing-through disk, effective angle of rotation 85°, maintenance-free.

Suited for use with gases of families I...III, air and flue gas up to +180°C.

Installation in ISO 7005 and ANSI flange connections.

New product	Butterfly valve DN 32	VKF10.032	S55592-G101-A100
New product	Butterfly valve DN 40	VKF10.040	S55592-G102-A100
New product	Butterfly valve DN 50	VKF10.050	S55592-G103-A100
New product	Butterfly valve DN 65	VKF10.065	S55592-G104-A100
New product	Butterfly valve DN 80	VKF10.080	S55592-G105-A100
New product	Butterfly valve DN 100	VKF10.100	S55592-G106-A100
New product	Butterfly valve DN 125	VKF10.125	S55592-G107-A100
New product	Butterfly valve DN 150	VKF10.150	S55592-G108-A100
New product	Butterfly valve DN 200	VKF10.200	S55592-G109-A100

New

*Coupling and mounting kit (for SQM33, SQM40 and SQM45) are included with each damper
ASK33.3: Mounting plate between SQM5... (only with AGA58.5) and VKF10

ASK33.3

VKF



VKF11

Disk with metal-to-metal seating, angle of rotation 85°, maintenance-free.

Suited for use with gases of families I...III, air and flue gas up to +180°C.

Installation in ISO 7005 and ANSI flange connections. Valve disk closes against end stop.


New product	Butterfly valve DN 32	VKF11.032	S55592-G110-A100
New product	Butterfly valve DN 40	VKF11.040	S55592-G111-A100
New product	Butterfly valve DN 50	VKF11.050	S55592-G112-A100
New product	Butterfly valve DN 65	VKF11.065	S55592-G113-A100
New product	Butterfly valve DN 80	VKF11.080	S55592-G114-A100
New product	Butterfly valve DN 100	VKF11.100	S55592-G115-A100
New product	Butterfly valve DN 125	VKF11.125	S55592-G116-A100
New product	Butterfly valve DN 150	VKF11.150	S55592-G117-A100
New product	Butterfly valve DN 200	VKF11.200	S55592-G118-A100

New



*Coupling and mounting kit (for SQM33, SQM40 and SQM45) are included with each damper
ASK33.3: Mounting plate between SQM5... (only with AGA58.5) and VKF11

ASK33.3


Butterfly Valves

			Type
 VKG	VKG10 / VKG20		
	Swing-through disk, angle of rotation 90°, maintenance-free. Suited for use with gases of families I...III and air up to +70°C. Designed for installation in threaded connection.		
New product	Butterly valve DN 32	VKG10.032ER	S55592-G301-A100
New product	Butterly valve DN 40	VKG10.040ER	S55592-G302-A100
New product	Butterly valve DN 50	VKG10.050ER	S55592-G303-A100
New product	Butterly valve DN 65	VKG10.065ER	S55592-G304-A100
New product	Butterly valve DN 80	VKG10.080ER	S55592-G305-A100
New product	Butterly valve DN 32	VKG20.032ER	S55592-G306-A100
New product	Butterly valve DN 40	VKG20.040ER	S55592-G307-A100
New product	Butterly valve DN 50	VKG20.050ER	S55592-G308-A100
New product	Butterly valve DN 65	VKG20.065ER	S55592-G309-A100
New product	Butterly valve DN 80	VKG20.080ER	S55592-G310-A100
New	*Coupling and mounting kit (for SQM33, SQM40 and SQM45) are included with each damper ASK33.3: Mounting plate between SQM5... (only with AGA58.5) and VKG		ASK33.3







Proportional Flow Control Valves

VKP...				
to be mounted in gas trains with additional flanges, for gas families I...III or air				
	Housing	avail. flanges	Air-volumetric flow m ³ /h at Δp 1 kPa when fully open	
 VKP40...	DN 40	1/2 "	11	VKP40.15
	DN 40	3/4 "	20	VKP40.20
	DN 40	1 "	28	VKP40.25
	DN 40	1 1/4 "	50	VKP40.32
	DN 40	1 1/2 "	69	VKP40.40
	DN 40	2 "	88	VKP40.50
	DN 40	2 "	200	VKP40.50H
	DN 40	2 "	270	VKP40.50S
	Accessories VKP...			
AGF10... flanges same as for VGD20... see below				
Replacement gaskets for the flanges are included in S55851-Z901-A100 (AGA92, see below)				
ASK33.1		Mounting plate between SQM4..., SQM33...and VKP40		ASK33.1
ASK33.3		Mounting plate between SQM5... (only with AGA58.5) and VKP40		ASK33.3

Gas Valve Proving System

		Type	
 LDU11..	LDU11... The LDU11... control unit is designed for gas valve proving in gas-fired combustion plants equipped with 2 safety shutoff valves. During each startup cycle, the control unit programs the valve proving test and, in the event of leakage, prevents burner startup. For automatic gas valve proving (leakage test) based on the pressure proving principle especially for plants >350 kW.		
	Line voltage/frequency: 220V -15%...240V +10%; 50...60Hz +/-6%		
	Phase-out product		LDU11.323A27
	Phase-out product	*)	LDU11.523A27
		100V -15%...110V +10%; 50...60Hz +/-6%	
	Phase-out product		LDU11.323A17
	Phase-out product	*)	LDU11.523A17
	*) Valve opening times do not conform to EN 1643		
	Phase-out product	Plug-in base (PG 11)	AGM11
	Phase-out product	Plug-in base (M 16)	AGM11.1

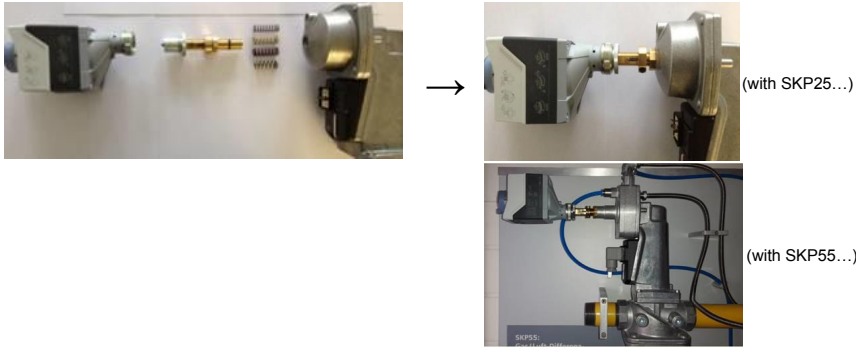
Gas & Air Valve Actuators

		Type
SKP... Electrohydraulic actuators, slow opening, fast closing, some with regulator function Connector plugs AGA... have to be ordered separately		
Line voltage/frequency: AC 230 V -15%/+10%; 50...60 Hz +/-6%		
	Single stage on-off, no limit switch	SKP15.000E2
	Single stage on-off, with limit switch	SKP15.001E2
	with pressure governor 0...2.2 kPa, no limit switch	SKP25.003E2
	with pressure governor 0...2.2 kPa, with limit switch	SKP25.001E2
	with pressure regulator 2 stage 0...6 kPa, no limit switch	SKP25.203E2
	with pressure regulator 2 stage 0...2 kPa, no limit switch	SKP25.203E2L
	with pressure regulator 2 stage 0...6 kPa, with limit switch	SKP25.201E2
	with zero governor controlled by air pressure, no limit switch	SKP25.303E2
	with pressure regulator 0.. 150 kPa, no limit switch	SKP25.403E2
	with differential pressure governor, no limit switch	SKP55.003E2
	with differential pressure governor, with limit switch	SKP55.001E2
	with gas/air ratio controller, no limit switch	SKP75.003E2
	with gas/air ratio controller, with limit switch	SKP75.001E2

Gas & Air Valve Actuators

Pressure regulator, no limit switch, electr. setpoint adjustment with SAS...	Type SKP25.003E3 + AGA30.7* + SAS... Actuator**
Pressure regulator, with limit switch, electr. setpoint adjustment with SAS...	SKP25.001E3 + AGA30.7* + SAS... actuator**
Differential pressure governor, no limit switch, electr. parallel displacement with SAS...	SKP55.003E2 + AGA30.7* + SAS... Actuator**
Differential pressure governor, with limit switch, electr. parallel displacement with SAS...	SKP55.001E2 + AGA30.7* + SAS... Actuator**

*AGA30.7 (S55851-Z401-A100) as well as different set point springs of SKP25 → see accessories (below)
 **Different SAS motors can be used depending on the required function (e.g. electric control signal), see Data Sheet N4581.



SKP...

Electrohydraulic actuators, slow opening, fast closing, some with regulator function
Connector plugs AGA... have to be ordered separately

Line voltage/frequency: AC 120V -15%/+10%; 50...60Hz +/-6%	
Single stage on-off, no limit switch	SKP15.000E1
Single stage on-off, with limit switch	SKP15.001E1
with pressure governor 0... 2.2 kPa, with limit switch	SKP25.001E1
with pressure governor 0... 2.2 kPa, no limit switch	SKP25.003E1
with differential pressure governor, with limit switch	SKP55.001E1
with gas/air ratio controller, with limit switch	SKP75.001E1
with gas/air ratio controller, no limit switch	SKP75.003E1

SKP...U (US versions)

Electrohydraulic actuators, slow opening, fast closing, some with regulator function

Line voltage/frequency: 110V -15%...120V +10%; 50...60Hz +/-6%	
single stage with POC (proof of closure switch)	SKP15.011U1
single stage with auxiliary switch and POC	SKP15.012U1
single stage	SKP15.013U1
pressure regulator with POC	SKP25.011U1
pressure regulator with aux switch and POC	SKP25.012U1
pressure regulator	SKP25.013U1
differential pressure regulator with POC	SKP55.011U1
differential pressure regulator with aux switch and POC	SKP55.012U1
differential pressure regulator	SKP55.013U1
gas-/air ratio controller with POC	SKP75.011U1
gas-/air ratio controller with aux switch and POC	SKP75.012U1
gas-/air ratio controller	SKP75.013U1

SKL... (for air valves)




Electrohydraulic actuators, slow opening, fast closing, some with regulator function

Line voltage/frequency: AC 230 V -15%/+10%; 50...60 Hz +/-6%	
with pressure governor 0... 2.2 kPa, with limit switch	SKL25.001E2
with pressure governor 0... 2.2 kPa, no limit switch	SKL25.003E2
Line voltage/frequency: AC 120V -15%/+10%; 50...60Hz +/-6%	
with pressure governor 0... 2.2 kPa, no limit switch	SKL25.003E1

Connector plugs AGA... have to be ordered separately.

Accessories for gas/air valve actuators

Accessories to be ordered separately.

	AGA21 setpoint spring 0.5...3.5 kPa (black) for SKP25/SKL25	S55851-Z301-A100
	AGA26 setpoint spring 0.2...5.5 kPa (orange) for SKP25/SKL25	S55851-Z302-A100
	Setpoint spring 1.5 ... 12 kPa (yellow) for SKP25/SKL25	AGA22
	Setpoint spring 10 ... 25 kPa (red) for SKP25/SKL25	AGA23
	Damping throttle for SKP25/SKL25	AGA25.2
	Setpoint spring for SKP25.3... & SKP55... (blank, 0.15 kPa)	AGA28
	Setpoint spring for SKP25... (blank, 0... 2.2 kPa)	AGA29
	Setpoint adjustment for SKP25... with spring 15...120 mbar	AGA30.0
	Setpoint adjustment for SKP25... with spring 100...250 mbar	AGA30.1
	Setpoint adjustment for SKP25... with spring 100...360 mbar	AGA30.2
	AGA30.7 Adaptation to SKP25.0 for motor pressure correction using a standard SAS.. actuator	S55851-Z401-A100
	Adapter for actuators SAX... for VG..., VL... and VR.. Valves	AGA60
	Manual operation for all VG..., VL... & VR... valves	AGA61
	Connecting cable with plug for two SKPx5...	AGA62.000A000
	Contact box for valve actuator (power supply) for SKPx5	AGA64
AGA64 / AGA65	Contact box for end switch for SKPx5	AGA65
	NEMA 4/IP65 kit SKPx5.../VG...	AGA66
	Conduit box for powering the SKP25.2...	AGA67
AGA67 / AGA68	Adapter plug for AGA62.000A000	AGA68
	Damping throttle for SKP55/SKP75	AGA75
	Pressure reducing-T-piece for SKP75...	AGA78
	PTC heating for SKP15/25/55/75..., for temperatures below -10 °C	AGA63.5A27
AGA63.5A27		

Type

Female thread gas valves

4 test points, contoured disk, without stroke limiter

Nominal size	max pressure	Valve body material	
R 1/2"	120 kPa	Die-cast aluminium	VGG10.154P
R 3/4"	120 kPa	Die-cast aluminium	VGG10.204P
R 1"	120 kPa	Die-cast aluminium	VGG10.254P
R 1 1/2"	60 kPa	Die-cast aluminium	VGG10.404P
R 2"	60 kPa	Die-cast aluminium	VGG10.504P
R 3"	30 kPa	Cast iron	VGG10.804P



VGG...

4 test points, contoured disk, with stroke limiter

Nominal size	max pressure	Valve body material	
R 1/2"	120 kPa	Die-cast aluminium	VGG10.1541P
R 3/4"	120 kPa	Die-cast aluminium	VGG10.2041P
R 1"	120 kPa	Die-cast aluminium	VGG10.2541P
R 1 1/2"	60 kPa	Die-cast aluminium	VGG10.4041P
R 2"	60 kPa	Die-cast aluminium	VGG10.5041P
R 3"	30 kPa	Cast iron	VGG10.8041P

Phase-out product

4 test points, contoured disk, without stroke limiter, US versions NPT

Nominal size	max pressure	Valve body material	
1/2"	120 kPa	Die-cast aluminium	VGG10.154U
3/4"	120 kPa	Die-cast aluminium	VGG10.204U
1"	120 kPa	Die-cast aluminium	VGG10.254U
1 1/2"	60 kPa	Die-cast aluminium	VGG10.404U
2"	60 kPa	Die-cast aluminium	VGG10.504U
2 1/2"	30 kPa	Cast iron	VGG10.654U
3"	30 kPa	Cast iron	VGG10.804U

US-Doc. No. 155-512P25



VGF...

Flanged gas valves

4 test points, some with contoured disk, without stroke limitation

Nominal size	max pressure	Valve body material	
DN 40	60 kPa	Cast iron, with contoured disk	VGF10.404P
DN 50	60 kPa	Cast iron, with contoured disk	VGF10.504P
DN 65	30 kPa	Cast iron, with contoured disk	VGF10.654P
DN 80	30 kPa	Cast iron, with contoured disk	VGF10.804P

Phase-out product



VGF...

Flanged gas valves

4 test points, with contoured disk and stroke limitation

	Nominal size	max pressure	Valve body material	Type
Phase-out product	DN 50	60 kPa	Cast iron	VGF10.5041P
Phase-out product	DN 80	30 kPa	Cast iron	VGF10.8041P



VGD20...

Double gas valves, without connecting flange

With 3 threaded holes for connections (2 x 1/4", 1 x 3/4")

Nominal size	max pressure	Valve body material	Type
1 1/2"	150 kPa	Die-cast aluminium	VGD20.403
2"	150 kPa	Die-cast aluminium	VGD20.503

With 11 threaded holes for connections (6 x 1/4", 4 x 1/8", 1 x 3/4")

1"	150 kPa	Die-cast aluminium	VGD20.2511
1 1/4"	150 kPa	Die-cast aluminium	VGD20.3211
1 1/2"	150 kPa	Die-cast aluminium	VGD20.4011
2"	150 kPa	Die-cast aluminium	VGD20.5011

**With no contoured disk on the valve seat (V2) for quicker gas release*

AGA92 service replacement kit for VGD20

S55851-Z901-A100

Required when replacing the VGD20 and retaining the old flanges AGA41 / AGA51



AGF10...

Flanges for VGD20... and VKP40... (to be ordered separately, 2 pieces per valve)

female thread

Nominal size Rp	Valve body material	Type
1/2 "	Die-cast aluminium	AGF10.15
3/4 "	Die-cast aluminium	AGF10.20
1 "	Die-cast aluminium	AGF10.25
1 1/4 "	Die-cast aluminium	AGF10.32
1 1/2 "	Die-cast aluminium	AGF10.40
2 "	Die-cast aluminium	AGF10.50

Double gas valves, without connecting flange, US versions

With 3 threaded holes for connections (2 x 1/4", 1 x 3/4")


Nominal size	max pressure	Valve body material	Type
1"	20 psi	Die-cast aluminium	VGD20.253U
1 1/4"	20 psi	Die-cast aluminium	VGD20.323U
1 1/2"	20 psi	Die-cast aluminium	VGD20.403U
2"	20 psi	Die-cast aluminium	VGD20.503U

Flanges for VGD20...U and VKP40... (to be ordered separately, 2 pieces per valve)

female thread

Nominal size NPT	Valve body material	Type
1/2 "	Die-cast aluminium	AGF10.15U
3/4 "	Die-cast aluminium	AGF10.20U
1 "	Die-cast aluminium	AGF10.25U
1 1/4 "	Die-cast aluminium	AGF10.32U
1 1/2 "	Die-cast aluminium	AGF10.40U
2 "	Die-cast aluminium	AGF10.50U

Gas & Air Valves

Double gas valves with connecting flange				Type
	Nominal size	max pressure	Valve body material	
	DN 40 (1 1/2")	100 kPa	Die-cast aluminium	VGD40.040
	DN 50 (2")	100 kPa	Die-cast aluminium	VGD40.050
	DN 65 (2 1/2")	70 kPa	Die-cast aluminium	VGD40.065
	DN 80 (3")	70 kPa	Die-cast aluminium	VGD40.080
	DN 100	70 kPa	Die-cast aluminium	VGD40.100
	DN 125	70 kPa	Die-cast aluminium	VGD40.125
DN 150	70 kPa	Die-cast aluminium	VGD40.150	

Mounting plate for pressure switches for VGD40...and VRD40...
- Spare part with plugs and sealing material

AGA40.41

Mounting plate for pilot connections for VGD40... and VRD40...
- Spare part with plugs and sealing material

AGA40.40


Same as above, but mounting plate for pressure switches on both sides

Nominal size	max pressure	Valve body material	
DN 40	100 kPa	Die-cast aluminium	VGD41.040
DN 50	100 kPa	Die-cast aluminium	VGD41.050
DN 65	70 kPa	Die-cast aluminium	VGD41.065
DN 80	70 kPa	Die-cast aluminium	VGD41.080
DN 100	70 kPa	Die-cast aluminium	VGD41.100
DN 125	70 kPa	Die-cast aluminium	VGD41.125

Same as above, but mounting plate for pressure switches on opposite side

Nominal size	max pressure	Valve body material	
DN50	100 kPa	Die-cast aluminium	VGD40.050L
DN65	70 kPa	Die-cast aluminium	VGD40.065L
DN80	70 kPa	Die-cast aluminium	VGD40.080L
DN100	70 kPa	Die-cast aluminium	VGD40.100L
DN125	70 kPa	Die-cast aluminium	VGD40.125L
DN150	70 kPa	Die-cast aluminium	VGD40.150L

Threaded and flanged double gas valves, US versions

	Nominal size	max pressure	Valve body material	
	<i>threaded valves</i>			
	DN65 (2-1/2" NPT)	10 psi	Die-cast aluminium	VGD40.065U
	DN80 (3" NPT)	10 psi	Die-cast aluminium	VGD40.080U
	<i>flanged valves</i>			
DN100	10 psi	Die-cast aluminium	VGD40.100U	
DN150	10 psi	Die-cast aluminium	VGD40.150U	

1 1/4" NPT vent connection plate for VGD40.xxxU*

AGA40.6580U

2" NPT vent connection plate for VGD40.xxxU*


AGA40.0100U

2 1/2" NPT vent connection plate for VGD40.xxxU*

AGA40.0150U

*Each vent connection includes 1/4" NPT test port

Double valves for biogases and recycling gases, with connecting flange


	Nominal size	max pressure	Valve body material	
	DN 40 (1 1/2")	100 kPa	Die-cast aluminium	VRD40.040
	DN 50 (2")	100 kPa	Die-cast aluminium	VRD40.050
	DN 65 (2 1/2")	70 kPa	Die-cast aluminium	VRD40.065
	DN 80 (3")	70 kPa	Die-cast aluminium	VRD40.080
	DN 100	70 kPa	Die-cast aluminium	VRD40.100
	DN 125	70 kPa	Die-cast aluminium	VRD40.125
DN 150	70 kPa	Die-cast aluminium	VRD40.150	

Mounting plates for pressure switches (spare part), see above (AGA40.40/41).

Gas & Air Valves


Type

Double valves for biogases and recycling gases, threaded and flanged, US versions

	Nominal size	max pressure	Valve body material	
	<i>threaded valves</i>			
	1-1/2" NPT	20 psi	Die-cast aluminium	VRD40.040U
	2" NPT	20 psi	Die-cast aluminium	VRD40.050U
	<i>flanged valves</i>			
	DN65	10 psi	Die-cast aluminium	VRD40.065UF
	DN80	10 psi	Die-cast aluminium	VRD40.080UF
	DN100	10 psi	Die-cast aluminium	VRD40.100UF
	DN150	10 psi	Die-cast aluminium	VRD40.150UF


Flanged bio gas valves

4 test points, contoured disk, without stroke limitation, max. 60 °C

	Nominal size	max pressure	Valve body material	
VRF... 	<i>Phase-out product</i>			
	DN 40	60 kPa	Cast iron	VRF10.404
	DN 50	60 kPa	Cast iron	VRF10.504
<i>Phase-out product</i>	DN 65	30 kPa	Cast iron	VRF10.654
	DN 80	30 kPa	Cast iron	VRF10.804

Flanged valves for hot air

Cast iron, 4 test points

	Nominal size	max pressure	For air up to:	
VLF... (450°C) 	<i>Phase-out product</i>			
<i>Phase-out product</i>	DN 40	60 kPa	450 °C	VLF45.404
<i>Phase-out product</i>	DN 50	60 kPa	450 °C	VLF45.504
<i>Phase-out product</i>	DN 65	30 kPa	450 °C	VLF45.654
<i>Phase-out product</i>	DN 80	30 kPa	450 °C	VLF45.804


Pressure switches


For the supervision of air or gas pressures in gas trains of gas-fired equipment (gas burners).

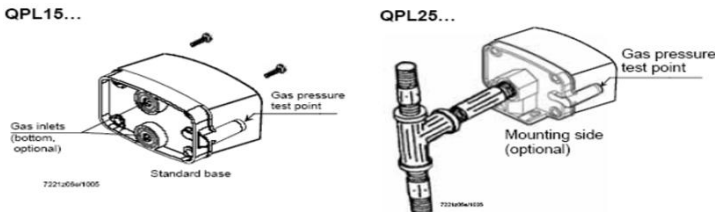
QPL... can be used as min. or max. pressure switches.

For pressure ranges up to 50 kPa.

Suited for gases of gas families 1, 2 and 3 and other neutral gaseous media.

	Pressure switch, via O-ring connection, 0.2...1 kPa	QPL15.010
	Pressure switch, via O-ring connection, 0.5... 5 kPa	QPL15.050
	Pressure switch, via O-ring connection, 0.5... 15 kPa	QPL15.150
	Pressure switch, via O-ring connection, 10... 50 kPa	QPL15.500
	Pressure switch, via 1/4" connection 0.07... 0.3 kPa	QPL25.003
	Pressure switch, via 1/4" connection, 0.2 ... 1 kPa	QPL25.010
	Pressure switch, via 1/4" connection, 0.5... 5 kPa	QPL25.050
	Pressure switch, via 1/4" connection, 0.5... 15 kPa	QPL25.150
	Pressure switch, via 1/4" connection, 10... 50 kPa	QPL25.500
<i>Connectors for QPL... to be ordered separately.</i>		

AGA65 	Connector for QPL... Conforming to DIN EN 175301-803-A	AGA65
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QPL15... can be mounted directly on VGD20... and VGD40... valves.

Example:

Only VGD20.4011
respectively
e.g. VGD20.5011



Type

Compact universal controller RWF5...

For optimizing temperature or pressure by controlling modulating or multistage burner.

The RWF5x is used mainly for controlling the temperature or pressure in oil- or gas-fired heating plants.

The controller is used either as a 3-position controller without angular positioning feedback or a continuous controller with analog output depending on the setting. An external switch can be used to change to a 2-position controller for controlling 2-stage burners. The integrated thermostat function switches the burner on and off. The thermostat at the RWF55 can be used as a thermal reset limit thermostat conforming to DIN EN 14597.

Line voltage/frequency:

AC 100...240 V +/-10%; 48...63 Hz +/-10%



48 x 48 mm -Version with analogue input and 3 position output

RWF50.20A9

48 x 48 mm -Version with analogue input and analogue output

RWF50.30A9



48 x 96mm version with 3 analogue inputs (similar to RWF40...) and features 3 position output as well as an analogue output. In addition the controller has a ModBus communication interface to connect to supervisory systems and controls.

RWF55.50A9

same as RWF55.50A9 plus an additional Profibus communication interface

RWF55.60A9

PC software for RWF5...

ACS411

Adapter frame

Phase-out product
ARG41



Adapter frame for replacing RWF32... for DIN rail-mounting

ARG41

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract. The document contains a general product overview. Availability can vary by country. For detailed product information, please contact the company office or authorized partners.

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