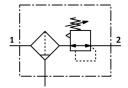
Filter regulator LFR-N1/4-D-16-5M-O-MIDI-T3-EX4 Part number: 5271802



General operating condition

Data sheet

Series D Actuator lock Rotary knob with detent Wounting position Vertical +/- 5° Grade of filtration S µm Condensate drain Manually rotating Structural design Filter regulator without pressure gauge Max. condensate volume 42 ml 3owl guard Integrated as metal bowl guard Symbol 00991586 Pressure gauge G1/4 prepared Operating pressure 0.1 MPa 2 MPa Operating pressure 1 bar 20 bar Pressure regulation range 0.5 Jar 16 bar Max. pressure hysteresis 0.02 MPa Max. pressure hysteresis 0.20 MPa ZKA marking (see declaration of conformity) acc. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) Explosion protection certification outside the EU EPL Db (GB) Explosion protection for gas Ex h IIC T 6b X XEX category gas 1126 XIEX category for dust 1120 Yippe of ignition protection for gas Ex h IIC T 6b X Yippe of ignition protection for dust Ex h IIC T 8b X	Feature	Value
Kutautor lock Rotary knob with detent Wounting position Vertical +/- 5° Srade of filtration 5 µm Condensate drain Manually rotating Structural design Filter regulator without pressure gauge Max. condensate volume 42 ml Bowl guard Integrated as metal bowl guard Symbol 00991586 Operating pressure 0.1 MPa 2 MPa Operating pressure 1 bar 20 bar Pressure regulation range 0.5 bar 16 bar Max. pressure hysteresis 0.02 MPa Standard forminal flow rate 1150 l/min Etamarking (see declaration of conformity) as per EU explosion protection directive (ATEX) Zone 1 (MEX) Zone 1 (MEX) Zone 1 (MEX) Zone 1 (MEX) Zone 1 (MEX) Zone 1 (MEX) Zone 2 (MEX) Zone 2 (MEX) Zone 2 (MEX)	Size	Midi
Wounting position VertCal +/- 5° Srade of filtration 5 µm Condensate drain Manually rotating Structural design Filter regulator without pressure gauge Max. condensate volume 42 ml Bowl guard Integrated as metal bowl guard Symbol 00991586 Orgensition pressure 0.1 MPa 2 MPa Operating pressure 0.1 MPa 2 MPa Operating pressure 0.5 bar 16 bar Operating pressure 0.5 bar 16 bar Max. pressure hysteresis 0.20 MPa Standard nominal flow rate 1150 l/min Et marking (see declaration of conformity) ascr. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX)	Series	D
Srade of filtration S μm Condensate drain Manually rotating Structural design Filter regulator without pressure gauge Max. condensate volume 42 ml Sowl guard Integrated as metal bowl guard Symbol 00991586 Pressure gauge G1/4 prepared Operating pressure 0.1 MPa 2 MPa Operating pressure 0.1 MPa 2 MPa Operating pressure 0.2 Mar Vax. pressure hysteresis 0.02 MPa Wax. pressure hysteresis 0.02 MPa Wax. pressure hysteresis 2.9 psi Standard nominal flow rate 1150 l/min Et marking (see declaration of conformity) as per EU explosion protection directive (ATEX) JKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Zone 1 (VEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone	Actuator lock	Rotary knob with detent
Condensate drainManually rotatingStructural designFilter regulator without pressure gaugeMax. condensate volume42 mlBowl guardIntegrated as metal bowl guardSymbol00991586Pressure gaugeG1/4 preparedOperating pressure0.1 MPa 2 MPaOperating pressure1 bar 20 barPressure hysteresis0.22 MPaWax. pressure hysteresis0.20 MPaWax. pressure hysteresis2.9 psiStandard nominal flow rate1150 l/min2E marking (see declaration of conformity)as per EU explosion protection directive (ATEX)XIKCA marking (see declaration of conformity)act. to UK EX instructionsExplosion protection certification outside the EUEPL bb (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 21 (ATEX) Z	Mounting position	Vertical +/- 5°
Structural design Filter regulator without pressure gauge Max. condensate volume 42 ml 3owl guard Integrated as metal bowl guard Symbol 00991586 Operating pressure 0.1 MPa 2 MPa Operating pressure 0.5 bar 16 bar Over thy steres is 0.02 MPa Vax. pressure hysteres is 0.02 MPa Vax. pressure hysteres is 0.29 psi Standard nominal flow rate 1150 l/min Ete marking (see declaration of conformity) as per EU explosion protection directive (ATEX) XCA marking (see declaration of conformity) ac. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) Explosion protection certification outside the EU EVL b(GB) Explosion prevention and protection Zone 1 (ATEX) Zone 1 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21	Grade of filtration	5 μm
Max. condensate volume 42 ml Bowl guard Integrated as metal bowl guard Symbol 00991586 Pressure gauge G1/4 prepared Operating pressure 0.1 MPa 2 MPa Operating pressure 0.5 bar 16 bar Pressure regulation range 0.5 bar 16 bar Max. pressure hysteresis 0.02 MPa Max. pressure hysteresis 0.2.9 psi Standard nominal flow rate 1150 l/min ZE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) XKCA marking (see declaration of conformity) as per EU bysion protection directive (ATEX) Zxplosion protection certification outside the EU EPL bb (G8) Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) ATEX category gas II 2G MEX category for dust II 2D Vipe of ignition protection for dust Exh IIC T6 Gb X Explosion ambient temperature 40°C (~ Ta (= 480°C) Operating medium Compressed air as per ISO 8573-1:2010[-:9:-] Inert gas nformation on operating and pilot media </td <td>Condensate drain</td> <td>Manually rotating</td>	Condensate drain	Manually rotating
Bowl guardIntegrated as metal bowl guardSymbol00991586Pressure gaugeG1/4 preparedOperating pressure0.1 MPa 2 MPaOperating pressure0.5 bar 20 barPressure regulation range0.5 bar 16 barWax. pressure hysteresis0.02 MPaWax. pressure hysteresis2.9 psiStandard nominal flow rate1150 l/minZE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)ZKA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX)Zone 2 (ATEX)Zone 2 (ATEX) Zone 2 (ATEX)ATEX category gasII 2GATEX category for dustII 2DVipe of ignition protection for dustExh IIIC T6 Gb XStype of ignition protection for dustExh IIIC T6 Gb XStype of ignition protection for dustExh IIIC T85°C Db XExplosive ambient temperature-40°C (= Ta (= +80°C)Operating mediumCompressed air as per ISO 8573-1:2010[-:9:-] Inert gasnformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)	Structural design	Filter regulator without pressure gauge
Symbol00991586Pressure gaugeG1/4 preparedOperating pressure0.1 MPa 2 MPaOperating pressure1 bar 20 barPressure regulation range0.5 bar 16 barWax. pressure hysteresis0.02 MPaWax. pressure hysteresis2.9 psiStandard nominal flow rate1150 I/minEt marking (see declaration of conformity)as per EU explosion protection directive (ATEX)KCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB)Explosion protection and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX)ATEX category gasII 2GATEX category for dustII 2DFype of (ignition) protection for dustEx h IIC T6 Gb XExplosive ambient temperature40°C (~ Ta (~ + 80°COperating mediumCompressed air as per ISO 8573-1:2010[-:9:-] Inert gasnformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)	Max. condensate volume	42 ml
Pressure gaugeG1/4 preparedOperating pressure0.1 MPa 2 MPaOperating pressure1 bar 20 barPressure regulation range0.5 bar 16 barWax. pressure hysteresis0.02 MPaWax. pressure hysteresis2.9 psiStandard nominal flow rate1150 l/min2E marking (see declaration of conformity)as per EU explosion protection directive (ATEX)JXCA marking (see declaration of conformity)acc. to UK EX instructionsXxplosion protection certification outside the EUEPL Db (GB)Explosion prevention and protectionZone 1 (ATEX)Zone 2 (ATEX)Zone 2 (ATEX)Zone 2 (ATEX)Zone 2 (ATEX)ATEX category gas11 20Type of (ignition) protection for dustEx h III C T66 b XExplosion protection for dustEx h III C T85°C Db XExplosive ambient temperature-40°C (= Ta (= +80°COperating mediumCompressed air as per ISO 8573-1:2010 [-:9:-] Inert gas	Bowl guard	Integrated as metal bowl guard
Deperating pressure0.1 MPa 2 MPaOperating pressure1 bar 20 barPressure regulation range0.5 bar 16 barWax, pressure hysteresis0.02 MPaWax, pressure hysteresis2.9 psiStandard nominal flow rate1150 l/minZE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)JKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB)Explosion prevention and protectionZone 1 (ATEX)Zone 1 (MEX)Zone 2 (ATEX)Zone 2 (ATEX)Zone 2 (ATEX)Zone 2 (ATEX)Zone 21 (UKEX)Zone 21 (UKEX)Zone 21 (MEX)Zone 21 (MEX) <trr>Zone 21</trr>	Symbol	00991586
Derating pressure 1 bar 20 bar Pressure regulation range 0.5 bar 16 bar Wax. pressure hysteresis 0.02 MPa Max. pressure hysteresis 2.9 psi Standard nominal flow rate 1150 l/min ZE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) JKCA marking (see declaration of conformity) acc. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) Explosion prevention and protection Zone 1 (ATEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 2 (ATEX)	Pressure gauge	G1/4 prepared
Pressure regulation range0.5 bar 16 barWax, pressure hysteresis0.02 MPaWax, pressure hysteresis2.9 psiStandard nominal flow rate1150 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)JKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB)Explosion protection and protectionZone 1 (ATEX)Zone 1 (ATEX)Zone 2 (ATEX)Zone 2 (ATEX)Zone 21 (MEX)Zone 21 (MEX)Zone 22 (ATEX)ATEX category gasII 2DType of ignition protection for dustEx h IIC T6 Gb XType of (ginition) protection for dustEx h IIC T85°C Db XExplosive ambient temperature-40°C (~ Ta (~ +80°COperating mediumOperation with oil lubrication possible (required for further use)	Operating pressure	0.1 MPa 2 MPa
Nax. pressure hysteresis0.02 MPaWax. pressure hysteresis2.9 psiStandard nominal flow rate1150 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)JKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)ATEX category gasII 2GATEX category for dustII 2DFype of ignition protection for dustEx h IIC T6 Gb XFype of (ginition) protection for dustEx h IIIC T85°C Db XExplosive ambient temperature-40°C (= Ta (= +80°COperating mediumCompressed air as per ISO 8573-1:2010 [::9:-] Inert gasnformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)	Operating pressure	1 bar 20 bar
Max. pressure hysteresis2.9 psiStandard nominal flow rate1150 l/min2E marking (see declaration of conformity)as per EU explosion protection directive (ATEX)JKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB) EPL Gb (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX)ATEX category gasII 2GATEX category for dustII 2DFype of ignition protection for gasEx h IIC T6 Gb XFype of (ignition) protection for dustEx h IIC T85°C Db XExplosive ambient temperature-40°C <= Ta <= +80°C	Pressure regulation range	0.5 bar 16 bar
Standard nominal flow rate1150 l/min2E marking (see declaration of conformity)as per EU explosion protection directive (ATEX)JKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB) EPL Gb (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX)ATEX category gasII 2GATEX category for dustII 2DFype of ignition protection for gasEx h IIC T6 Gb XFype of (ignition) protection for dustEx h IIIC T85°C Db XExplosive ambient temperature-40°C <= Ta (= +80°C	Max. pressure hysteresis	0.02 MPa
EE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)JKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB) EPL Db (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX)ATEX category gasII 2GATEX category for dustII 2DFype of ignition protection for gasEx h IIC T6 Gb XExplosive ambient temperature-40°C (= Ta (= +80°C)Operating mediumCompressed air as per ISO 8573-1:2010[-:9:-] Inert gasnformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)	Max. pressure hysteresis	2.9 psi
JKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB) EPL Gb (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)ATEX category gasII 2GATEX category for dustII 2DFype of (ignition) protection for gasEx h IIC T6 Gb XExplosive ambient temperature-40°C (= Ta (= +80°C)Operating mediumCompressed air as per ISO 8573-1:2010 [-:9:-] Inert gasnformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)	Standard nominal flow rate	1150 l/min
Explosion protection certification outside the EUEPL Db (GB) EPL Gb (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)ATEX category gasII 2GATEX category for dustII 2DType of ignition protection for gasEx h IIC T6 Gb XExplosive ambient temperature-40°C <= Ta <= +80°C	CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
EPL Gb (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (WEX) Zone 21 (WEX) Zone 22 (ATEX)ATEX category gasII 2GATEX category for dustII 2DType of ignition protection for gasEx h IIC T6 Gb XExplosive ambient temperature-40°C <= Ta <= +80°C	UKCA marking (see declaration of conformity)	acc. to UK EX instructions
Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)ATEX category gasII 2GATEX category for dustII 2DType of ignition protection for gasEx h IIC T6 Gb XType of (ignition) protection for dustEx h IIC T85°C Db XExplosive ambient temperature-40°C <= Ta <= +80°C	Explosion protection certification outside the EU	
ATEX category for dust II 2D Fype of ignition protection for gas Ex h IIC T6 Gb X Type of (ignition) protection for dust Ex h IIIC T85°C Db X Explosive ambient temperature -40°C <= Ta <= +80°C	Explosion prevention and protection	Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX)
Type of ignition protection for gas Ex h IIC T6 Gb X Type of (ignition) protection for dust Ex h IIIC T85°C Db X Explosive ambient temperature -40°C <= Ta <= +80°C	ATEX category gas	II 2G
Type of (ignition) protection for dust Ex h IIIC T85°C Db X Explosive ambient temperature -40°C (= Ta (= +80°C Operating medium Compressed air as per ISO 8573-1:2010 [-:9:-] Inert gas nformation on operating and pilot media Operation with oil lubrication possible (required for further use)	ATEX category for dust	II 2D
Explosive ambient temperature -40°C <= Ta <= +80°C	Type of ignition protection for gas	Ex h IIC T6 Gb X
Operating medium Compressed air as per ISO 8573-1:2010 [-:9:-] Inert gas Inert gas nformation on operating and pilot media Operation with oil lubrication possible (required for further use)	Type of (ignition) protection for dust	Ex h IIIC T85°C Db X
Inert gas nformation on operating and pilot media Operation with oil lubrication possible (required for further use)	Explosive ambient temperature	-40°C <= Ta <= +80°C
	Operating medium	
Corrosion resistance class (CRC) 3 - High corrosion stress	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
	Corrosion resistance class (CRC)	3 - High corrosion stress

FESTO

Feature	Value
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-40 °C 80 °C
Air quality class at the output	Compressed air as per ISO 8573-1:2010 [6:8:4] Inert gas
Temperature of medium	-40 °C 80 °C
Ambient temperature	-40 °C 80 °C
Product weight	1400 g
Type of mounting	Optionally: Line installation With accessories
Pneumatic connection 1	1/4 NPT
Pneumatic connection 2	1/4 NPT
Note on materials	RoHS-compliant
Housing material	Die-cast zinc
Material of bowl	Wrought aluminum alloy