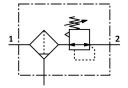
## Filter regulator LFR-1/4-D-16-5M-O-MIDI-T18-EX4 Part number: 4772766



General operating condition

## **Data sheet**

Size     Midi       Series     D       Actuator lock     Rotary knob with detent       Mounting position     Vertical +/- 5°       Grade 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     009991586       Pressure gauge     G1/4 prepared       Operating pressure     0.1 MPa 2 MPa       Operating pressure     0.5 bar 16 bar       Max. pressure hysteresis     0.02 MPa       Max. pressure hysteresis     0.20 Paint       Explosion protection of conformity)     as cr. to UK EX instructions       Explosion protection certification outside the EU     EPL bb (68)       Explosion protection certification outside the EU     EPL bb (68)       Explosion protection for gas     Ex h IIC T6 b X       Type of ignition protection for gas     Ex h IIC T6 b X       Type of (gnition protection for gas     Ex h IIC T6 b X       Type of (gnition protection for dust     Ex h IIC	Feature	Value
Actuator lockRotary knob with detentMounting positionVertical +/- 5°Grade of filtration5 µmCondensate drainManually rotatingStructural designFilter regulator without pressure gaugeMax. condensate volume42 mlBowl guardIntegrated as metal bowl guardSymbol00991586Pressure gaugeG1/4 preparedOperating pressure0.1 MPa 2 MPaOperating pressure0.1 MPa 2 MPaOperating pressure0.5 bar 16 barMax. pressure hysteresis0.02 MPaMax. pressure hysteresis2.9 psiStandard nominal flow rate1370 1/minCE marking (see declaration of conformity)as pre EU explosion protection directive (ATEX)UKCA marking (see declaration of conformity)Zone 1 UK EX)Zone 1 (UKEX)Zone 2 (ATEX)Zone 2 (ATEX)Zone 2 (ATEX)ATEX category gasII 20Type of ignition protection for gasEx h IIC T6 Gb XType of ignition protection for dustEx h IIC T6 Gb XType of ignition protection for dustEx h IIC T6 Gb XType of ignition protection for dustEx h IIC T6 Gb XType of ignition protection for dustEx h IIC T6 Gb XType of ignition protection for dustEx h IIIC T85°C D XExplosive ambient temperature-20°C <- Ta (= +80°C	Size	Midi
Mounting position       Vertical +/- 5°         Grade 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         Pressure gauge       G1/4 prepared         Operating pressure       0.1 MPa 2 MPa         Operating pressure       0.5 bar 16 bar         Max. pressure regulation range       0.5 bar 16 bar         Max. pressure hysteresis       0.02 MPa         Max. pressure hysteresis       2.9 psi         Standard nominal flow rate       1370 l/min         CE marking (see declaration of conformity)       as per EU explosion protection directive (ATEX)         UKCA marking (see declaration on outside the EU       EPL Ob (GB)         Explosion protection and protection       Zone 1 (ATEX)         Zone 21 (UKEX)       Zone 21 (UKEX)         Zone 21 (	Series	D
Grade of Titration       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         Pressure gauge       G1/4 prepared         Operating pressure       0.1 MPa 2 MPa         Operating pressure       0.5 bar 16 bar         Max. pressure hysteresis       0.02 MPa         Max. pressure hysteresis       0.02 MPa         Max. pressure hysteresis       0.20 MPa         Max. pressure hysteresis       2.9 psi         Standard nominal flow rate       1370 l/min         CE marking (see declaration of conformity)       as per EU explosion protection directive (ATEX)         UKCA marking (see declaration of conformity)       acc. to UK EX instructions         Explosion protection certification outside the EU       EPL Ob (GB)         Explosion prevention and protection       Zone 1 (MEX)         Zone 2 (ATEX)       Zone 2 (ATEX)	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 pressure0.5 bar 16 barMax. pressure hysteresis0.02 MPaMax. pressure hysteresis0.02 MPaMax. pressure hysteresis2.9 psiStandard nominal flow rate1370 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Ob (GB)Explosion prevention and protectionZone 1 (UKEX)Zone 2 (ATEX)Zone 2 (Griticon protection for gasEx h III CT6 Gb XType of ignition protection for dustEx h III CT85°C Db XExplosive ambient temperature-20°C (= Ta (= +80°COperating mediumCompressed air as per ISO 8573-1:2010[-:9:-]Inert gasCompressed air as per ISO 8573-1:2010[-:9:-]	Mounting position	Vertical +/- 5°
Structural design       Filter regulator without pressure gauge         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         Max. pressure hysteresis       0.02 MPa         Max. pressure hysteresis       0.02 MPa         Max. pressure hysteresis       2.9 psi         Standard nominal flow rate       1370 l/min         CE marking (see declaration of conformity)       as per EU explosion protection directive (ATEX)         UKCA marking (see declaration of conformity)       act. 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)         Zone 2 (ATEX)       Zone 2 (ATEX)         ATEX category gas       II 26         ATEX category for dust       II 20         Type of ignition protection for dust       Ex h IIC T6 Gb X         Explosive ambient temperature       -20°C (~ Ta (~ 80°C         Operating medium       Compressed air as per ISO 8573-1:2010 [-:9:-] <td>Grade of filtration</td> <td>5 µm</td>	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       2.9 psi         Standard nominal flow rate       1370 l/min         CE marking (see declaration of conformity)       as per EU explosion protection directive (ATEX)         UKCA marking (see declaration of conformity)       acc. to UK EX instructions         Explosion protection certification outside the EU       EPL bb (GB)         Explosion prevention and protection       Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX)         Zone 1 (UKEX) Zone 2 (ATEX)       Zone 2 (ATEX)         Zone 2 (ATEX)       Zone 2 (ATEX)         Zone 2 (ATEX)       Zone 2 (ATEX)         Zone 2 (GIEX)       ZONEX	Condensate drain	Manually rotating
Bowl guardIntegrated as metal bowl guardSymbol00991586Pressure gaugeG1/4 preparedOperating pressure0.1 MPa 2 MPaOperating pressure egulation range0.5 bar 16 barMax. pressure hysteresis0.02 MPaMax. pressure hysteresis0.02 MPaCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA marking (see declaration of conformity)ac. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB)Explosion protection and protectionZone 1 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX)ATEX category gasII 20ATEX category for dustII 20Type of (ignition) protection for dustEx h IIC T6 Gb XType of (ignition) protection for dustEx h IIC T6 Gb XCoperating mediumComerseed aria sper ISO 8573-1:2010[-:9:-] Inert gas	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 barMax. pressure hysteresis0.02 MPaMax. pressure hysteresis2.9 psiStandard nominal flow rate1370 l/minCE 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 21 (UKEX) Zone 21 (UKEX) 	Max. condensate volume	42 ml
Pressure gaugeG1/4 preparedOperating pressure0.1 MPa 2 MPaOperating pressure1 bar 20 barPressure regulation range0.5 bar 16 barMax. pressure hysteresis0.02 MPaMax. pressure hysteresis2.9 psiStandard nominal flow rate1370 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA marking (see declaration of conformity)ac. to UK EX instructionsExplosion protection certification outside the EUEPL Gb (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 21	Bowl guard	Integrated as metal bowl guard
Operating pressure0.1 MPa 2 MPaOperating pressure1 bar 20 barPressure regulation range0.5 bar 16 barMax. pressure hysteresis0.02 MPaMax. pressure hysteresis2.9 psiStandard nominal flow rate1370 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA 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 (ATEX)Zone 21 (UKEX)Zone 22 (ATEX)Zone 22 (ATEX) <td>Symbol</td> <td>00991586</td>	Symbol	00991586
DescriptionDescriptionOperating pressure1 bar 20 barPressure regulation range0.5 bar 16 barMax. pressure hysteresis0.02 MPaMax. pressure hysteresis2.9 psiStandard nominal flow rate1370 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB)Explosion protection and protectionZone 1 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX)ATEX category gasII 2DType of ignition protection for gasEx h IIC T6 Gb XType of (ignition) protection for dustEx h IIIC T85°C Db XExplosie ambient temperature-20°C <= Ta <= +80°C	Pressure gauge	G1/4 prepared
Pressure regulation range0.5 bar 16 barMax. pressure hysteresis0.02 MPaMax. pressure hysteresis2.9 psiStandard nominal flow rate1370 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA marking (see declaration of conformity)acc. to UK EX instructionsExplosion protection certification outside the EUEPL Db (GB)Explosion protection certification outside the EUEPL Db (GB)Explosion prevention and protectionZone 1 (ATEX) Zone 1 (ATEX) Zone 2 (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-20°C (= Ta (= +80°COperating mediumCompressed air as per ISO 8573-1:2010[-:9:-] Inert gas	Operating pressure	0.1 MPa 2 MPa
Max. pressure hysteresis0.02 MPaMax. pressure hysteresis2.9 psiStandard nominal flow rate1370 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA 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 (UKEX) Zone 2 (ATEX)ATEX category gasII 2GATEX category for dustII 2DType of ignition protection for dustEx h IIC T6 Gb XType of (ignition) protection for dustEx h IIIC T85°C Db XExplosive ambient temperature-20°C (= Ta (= +80°COperating mediumCompressed air as per ISO 8573-1:2010[-:9:-] Inert gas	Operating pressure	1 bar 20 bar
Max. pressure hysteresis2.9 psiMax. pressure hysteresis2.9 psiStandard nominal flow rate1370 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA 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 (UKEX)Zone 22 (ATEX)II 2GATEX category gasII 2DType of ignition protection for dustEx h IIC T6 Gb XType of (ignition) protection for dustEx h IIIC T85°C Db XExplosive ambient temperature-20°C (~= Ta (~= +80°COperating mediumCompressed air as per ISO 8573-1:2010 [-:9] Inert gas	Pressure regulation range	0.5 bar 16 bar
Standard nominal flow rate1370 l/minCE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA 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 (UKEX)Zone 2 (ATEX)Zone 21 (ATEX)Zone 21 (ATEX)Zone 22 (ATEX)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-20°C (= Ta (= +80°COperating mediumCompressed air as per ISO 8573-1:2010 [-:9:-]	Max. pressure hysteresis	0.02 MPa
CE marking (see declaration of conformity)as per EU explosion protection directive (ATEX)UKCA 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 (UKEX)Zone 2 (ATEX)Zone 2 (ATEX)Zone 21 (UKEX)Zone 21 (UKEX)Zone 21 (UKEX)Zone 22 (ATEX)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 IIIC T85°C Db XExplosive ambient temperature-20°C (= Ta (= +80°COperating mediumCompressed air as per ISO 8573-1:2010 [-:9:-] Inert gas	Max. pressure hysteresis	2.9 psi
UKCA 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 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) 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 IIIC T85°C Db XExplosive ambient temperature-20°C (= Ta (= +80°COperating mediumCompressed air as per ISO 8573-1:2010 [-:9:-] Inert gas	Standard nominal flow rate	1370 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 (UKEX) 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 IIIC T85°C Db XExplosive ambient temperature-20°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 2 (ATEX) Zone 21 (UKEX) 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 IIIC T85°C Db XExplosive ambient temperature-20°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 IIIC T85°C Db XExplosive ambient temperature-20°C <= Ta <= +80°C	Explosion protection certification outside the EU	
ATEX category for dust       II 2D         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       -20°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       -20°C <= Ta <= +80°C	ATEX category gas	II 2G
Type of (ignition) protection for dustEx h IIIC T85°C Db XExplosive ambient temperature-20°C <= Ta <= +80°C	ATEX category for dust	II 2D
Explosive ambient temperature     -20°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	Type of (ignition) protection for dust	Ex h IIIC T85°C Db X
Inert gas	Explosive ambient temperature	-20°C <= Ta <= +80°C
	Operating medium	, , , , , , , , , , , , , , , , , , , ,
Information on operating and pilot media Operation with oil lubrication possible (required for further use)	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC) 3 - High corrosion stress	Corrosion resistance class (CRC)	3 - High corrosion stress

**FESTO** 

Feature	Value
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-20 °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	-20 °C 80 °C
Ambient temperature	-20 °C 80 °C
Product weight	1400 g
Type of mounting	Optionally: Line installation With accessories
Pneumatic connection 1	G1/4
Pneumatic connection 2	G1⁄4
Note on materials	RoHS-compliant
Housing material	Die-cast zinc
Material of bowl	Wrought aluminum alloy