



THE **X** CONCEPT FOR OUR FILTERS

Protect the performance of your system with MYclean.
Quality and efficiency are fundamental for MP Filtri:
this exclusive new filter element possesses polygon shape geometry and specific seal
that ensures only original spare parts can be used - ensuring correct operation and
higher system reliability.

RFEX series

with **MYCLEAN** FEX Filter Element



- ◆ **Protects the machine from improper use of non-original products.**
- ◆ **Safety of constant quality protection & reliability**

With exclusive filter element you are sure that only MP Filtri filter elements can be used, ensuring the best cleaning level of the oil due to the use of originals filter elements.

The products identified as RFEX are protected by:

- ◆ Italian Patent n° 102014902261205
- ◆ Canadian Patent n° 2,937,258
- ◆ European Patent n° 3 124 092 B1
- ◆ US Patent n° 20170030384 A1

RFEX series

Maximum working pressure up to 1.6 MPa (16 bar) - Flow rate up to 260 l/min

ELIXIR[®]

Description

Technical data

Return filter

Maximum working pressure up to 1.6 MPa (16 bar)

Flow rate up to 260 l/min

RFEX is a range of return filters for protection of the reservoir against the system contamination.

They are mounted in line to limit aeration or foam generation into the reservoir.

Available features:

- Female threaded connections up to 1 1/4" and SAE connections up to 1 5/8", for a maximum flow rate of 260 l/min
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve, to relieve excessive pressure drop across the filter media
- Visual, electrical, axial and radial pressure gauges
- MYclean interface connection for the filter element, to protect the product against non-original spare parts
- External protective wrap, to optimize the flow through the element and to save the element efficiency against non-proper handling

Common applications:

- Light Industrial equipment
- Mobile application

Filter housing materials

- Head: Aluminium
- Bypass valve: Polyamide - Steel
- Bowl: Polyamide

Bypass valve

Opening pressure 175 kPa (1.75 bar) $\pm 10\%$

Δp element type

- Microfibre filter elements - series N: 8 bar
- Fluid flow through the filter element from OUT to IN

Seals

Standard NBR series A

Temperature

From -25 °C to +110 °C

Note

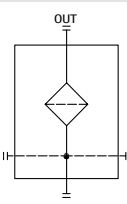
RFEX filters are provided for vertical mounting

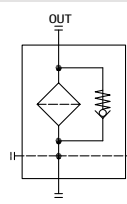
Weights [kg] and volumes [dm³]

Filter series	Weights [kg]	Volumes [dm ³]
RFEX 060	1.00	0.60
RFEX 080	1.15	0.80
RFEX 110	1.90	1.60
RFEX 160	2.10	2.00

Hydraulic symbols

Filter series	Style S	Style B
RFEX 060	•	•
RFEX 080	•	•
RFEX 110	•	•
RFEX 160	•	•





Flow rates [l/min]

Filter element design - N Series							
Filter series	A10	A16	A25	M60	M90	P10	P25
RFEX 060	60	61	64	87	89	62	77
RFEX 080	69	70	75	91	92	79	93

Filter series	A10	A16	A25	M60	M90	P10	P25
RFEX 110	141	153	172	250	252	186	196
RFEX 160	166	168	191	255	256	207	215

Maximum flow rate for a complete return filter with a pressure drop $\Delta p = 0.5$ bar.

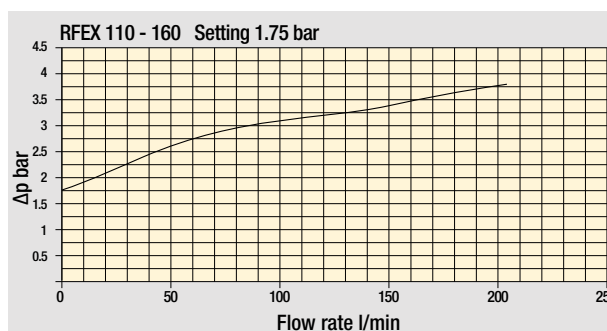
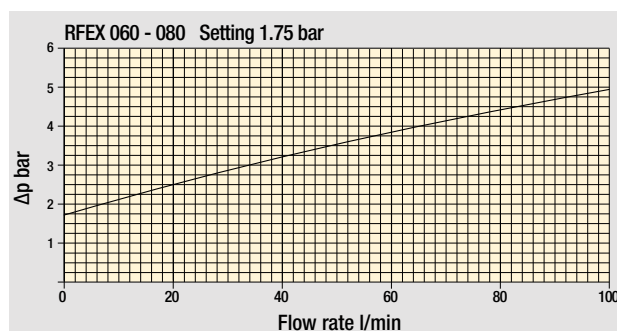
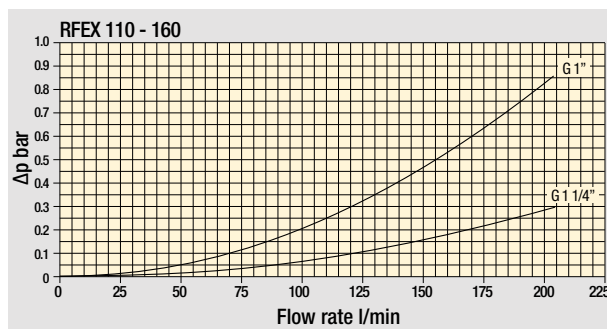
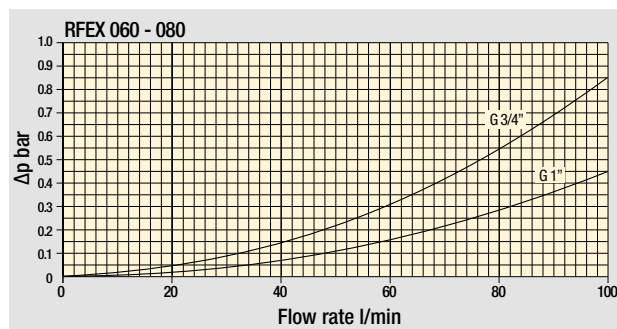
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

Please, contact our Sales Department for further additional information.

Pressure drop

Filter housings
 Δp pressure drop



Bypass valve
pressure drop

The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968.

Δp varies proportionally with density.

Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example : RFEX060							
RFEX060	Filter featuring  Filter Element		B	A	A	6	A10	N	P01
RFEX080	Filter featuring  Filter Element								
Bypass valve									
S	Without bypass								
B	1.75 bar								
Seals and treatments									
A	NBR								
Connections									
A	G 3/4"								
B	G 1"								
C	3/4" NPT								
D	1" NPT								
E	SAE 12 - 1 1/16" - 12 UN								
F	SAE 16 - 1 5/16" - 12 UN								
Connection for clogging indicator									
6	With plugged connections								
Filtration rating									
A10	Inorganic microfiber 10 µm	P10	Resin impregnated paper 10 µm						
A16	Inorganic microfiber 16 µm	P25	Resin impregnated paper 25 µm						
A25	Inorganic microfiber 25 µm								
M60	Wire mesh 60 µm								
M90	Wire mesh 90 µm								
Element Δp									
N	8 bar								
Execution									
P01	MP Filtri standard								
Pxx	Customized								

FILTER ELEMENT

Element series and size		Configuration example: FEX060							
FEX060	Filter Element with  feature			A10	A	N		P01	
FEX080	Filter Element with  feature								
Filtration rating									
A10	Inorganic microfiber 10 µm	P10	Resin impregnated paper 10 µm						
A16	Inorganic microfiber 16 µm	P25	Resin impregnated paper 25 µm						
A25	Inorganic microfiber 25 µm								
M60	Wire mesh 60 µm								
M90	Wire mesh 90 µm								
Seals and treatments									
A	NBR								
Element Δp									
N	8 bar								
Execution									
P01	MP Filtri standard								
Pxx	Customized								

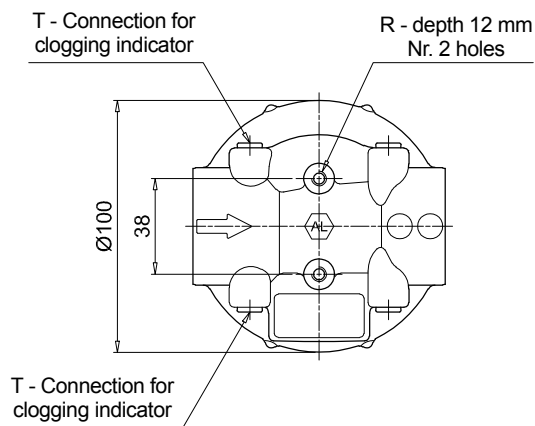
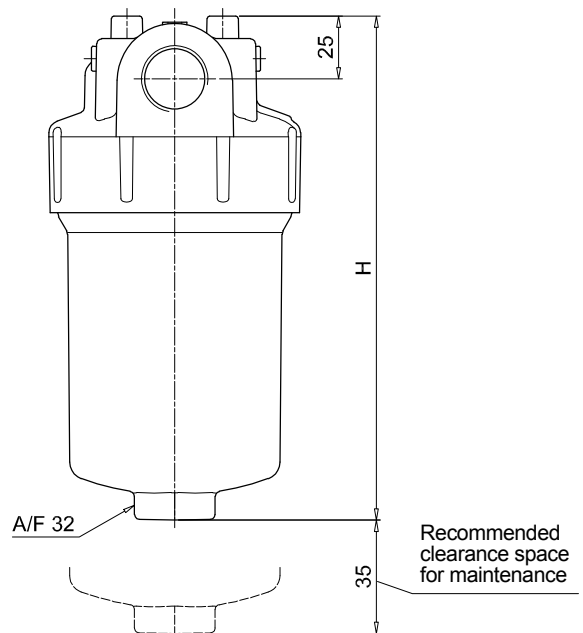
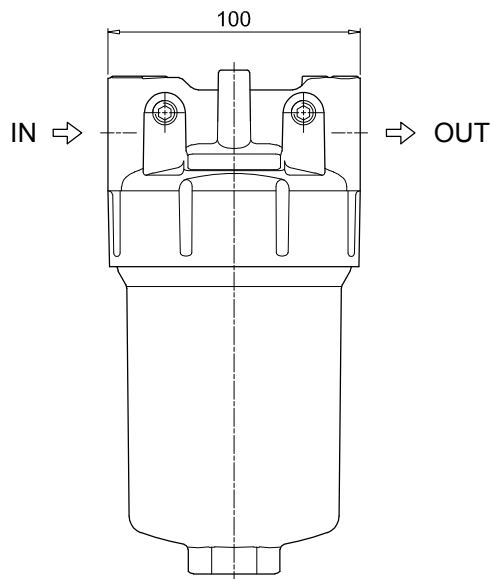
CLOGGING INDICATORS

See page 720-721

BEA	Electrical pressure indicator	BVA	Axial pressure gauge
BEM	Electrical pressure indicator	BVR	Radial pressure gauge
BLA	Electrical / visual pressure indicator	BVP	Visual pressure indicator with automatic reset
		BVQ	Visual pressure indicator with manual reset

Filter size	H [mm]
060	202
080	265

Connections	T	R
A	G 1/8"	M6
B	G 1/8"	M6
C	1/8" NPT	1/4" UNC
D	1/8" NPT	1/4" UNC
E	1/8" NPT	1/4" UNC
F	1/8" NPT	1/4" UNC



RFEX RFEX110 - RFEX160

Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: RFEX110							
RFEX110 Filter featuring  Filter Element		B	A	A	6	A10	N	P01	
RFEX160 Filter featuring  Filter Element									
Bypass valve									
S Without bypass									
B 1.75 bar									
Seals and treatments									
A NBR									
Connections									
A G 1"									
B G 1 1/4"									
C 1" NPT									
D 1 1/4" NPT									
E SAE 16 - 1 5/16" - 12 UN									
F SAE 20 - 1 5/8" - 12 UN									
Connection for clogging indicator									
6 With plugged connections									
Filtration rating									
A10 Inorganic microfiber	10 µm	P10 Resin impregnated paper 10 µm							
A16 Inorganic microfiber	16 µm	P25 Resin impregnated paper 25 µm							
A25 Inorganic microfiber	25 µm								
M60 Wire mesh	60 µm								
M90 Wire mesh	90 µm								
		Element Δp		Execution					
		N 8 bar		P01 MP Filtri standard					
				Pxx Customized					

FILTER ELEMENT

Element series and size		Configuration example: FEX110				
FEX110 Filter Element with  feature		A10	A	N	P01	
FEX160 Filter Element with  feature						
Filtration rating						
A10 Inorganic microfiber	10 µm	P10 Resin impregnated paper 10 µm				
A16 Inorganic microfiber	16 µm	P25 Resin impregnated paper 25 µm				
A25 Inorganic microfiber	25 µm					
M60 Wire mesh	60 µm					
M90 Wire mesh	90 µm					
Seals and treatments						
A NBR						
		Element Δp		Execution		
		N 8 bar		P01 MP Filtri standard		
				Pxx Customized		

CLOGGING INDICATORS

See page 720-721

BEA Electrical pressure indicator

BEM Electrical pressure indicator

BLA Electrical / visual pressure indicator

BVA Axial pressure gauge

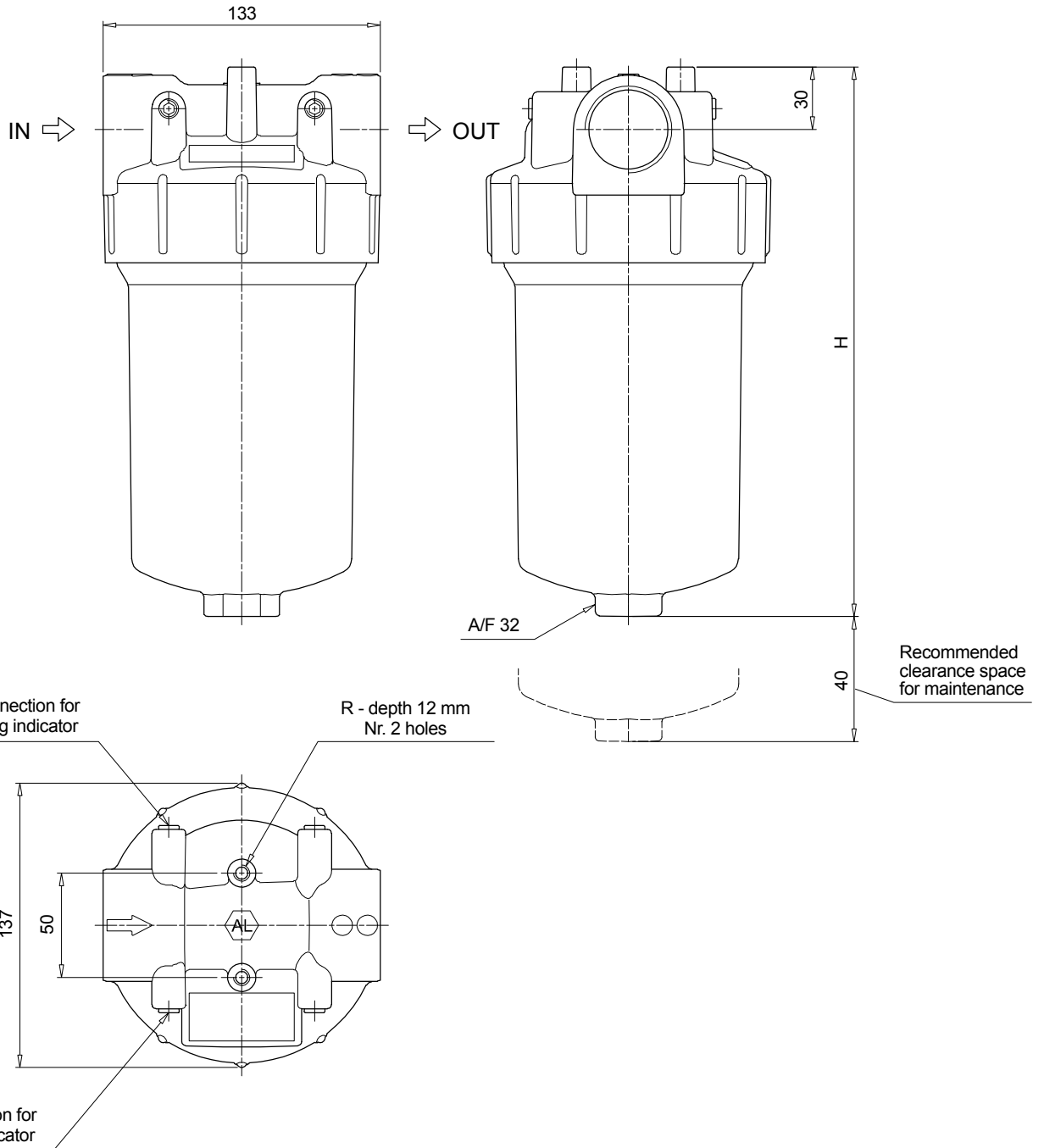
BVR Radial pressure gauge

BVP Visual pressure indicator with automatic reset

BVQ Visual pressure indicator with manual reset

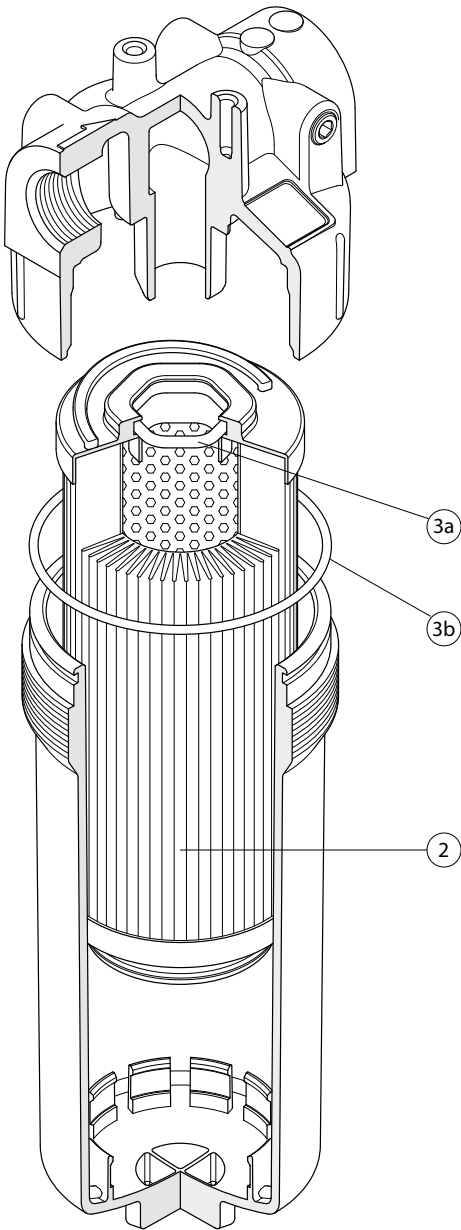
Filter size	H [mm]
110	266
160	315

Connections	T	R
A	G 1/8"	M8
B	G 1/8"	M8
C	1/8" NPT	5/16" UNC
D	1/8" NPT	5/16" UNC
E	1/8" NPT	5/16" UNC
F	1/8" NPT	5/16" UNC



RFEX SPARE PARTS

Order number for spare parts



Q.ty: 1 pc.		Q.ty: 1 pc.
Item:	2	3 (3a ÷ 3b)
Filter series	Filter element	Seal Kit code number NBR
RFEX 060-080	See order table	02050771
RFEX 110-160		02050772

Designation & Ordering code

BAROMETRIC (PRESSURE) INDICATORS

Series				Configuration example 1: BEA 15 H A 41 P01 EX									
BE Electrical pressure indicator				Configuration example 2: BLA 20 H A 71 P01									
BL Electrical/Visual pressure indicator				Configuration example 3: BVR 14 P01									
BV Visual pressure indicator				Configuration example 4: BVP 20 H P01									
Type	BE	BL	BV										
A Standard type	•	•	A Axial connection pressure gauge										
M With wired electrical connection	•	-	R Radial connection pressure gauge										
T With thermal switch	•	-	P Visual indicator with automatic reset										
			Q Visual indicator with manual reset										
Pressure setting	BEA-BEM	BET	BLA	BVA-BVR	BVP-BVQ								
14 1.4 bar	-	-	-	•	-								
15 1.5 bar	•	-	•	-	•								
20 2.0 bar	•	•	•	-	•								
25 2.5 bar	-	•	-	•	-								
Seals	BE	BLA	BVA-BVR	BVP-BVQ									
H HNBR	•	•	-	•									
Thermostat	BEA-BEM	BET	BLA										
A Without thermostat	•	-	•										
F With thermostat	-	•	-										
Electrical connections					BEA	BEM	BET	BL					
10 Connection AMP Superseal series 1,5	-	-	•	-									
30 Connection Deutsch DT-04-2-P	-	-	•	-									
41 Connection via four-core cable	-	•	-	-									
50 Connection EN 175301-803	•	-	-	-									
51 Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•									
52 Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•									
53 Connection EN 175301-803, transparent base with lamps 230 Vac	-	-	-	•									
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•									
					Option								
					P01 MP Filtri standard								
					Pxx Customized								
Certifications					BEA	BEM-BET	BL	BV					
Without					•	•	•	•					
EX ATEX certification					•	-	-	-					
UL UL certification					•	-	-	-					

DIFFERENTIAL PRESSURE INDICATORS

Series	
DE	Electrical differential pressure indicator
DL	Electrical/Visual differential pressure indicator
DT	Electrical differential pressure indicator
DV	Visual differential pressure indicator

Configuration example 1:	DE	M	20	H	F	50	P01	
Configuration example 2:	DE	U	50	V	A	50	P01	UL
Configuration example 3:	DL	E	20	V	A	71	P01	
Configuration example 4:	DT	A	20	H	F	70	P01	
Configuration example 5:	DV	M	20	V			P01	

Type	DE	DL	DT
A Standard type	•	•	•
M With wired electrical connection	•	-	-
U Standard type 210 bar, UL certified	•	-	-
E For high power supply	-	•	-
S Compact version	•	-	-

DV	
A	With automatic reset
M	With manual reset
S	With automatic reset

Pressure setting	DEA	DEM	DEU	DES	DL	DT	DVA	DVM	DVS
12 1.2 bar	-	-	-	•	-	-	-	-	•
20 2.0 bar	•	•	•	-	•	•	•	•	-
25 2.5 bar	-	-	-	•	-	-	-	-	•

Seals	DEA	DEM	DEU	DES	DL	DT	DVA	DVM	DVS
H HNBR	•	•	-	•	•	•	•	•	•
V FPM	•	•	•	-	•	•	•	•	-

Thermostat	DEA	DEM	DEU	DES	DLA	DLE	DT
A Without thermostat	•	•	•	•	•	•	-
F With thermostat	-	•	-	-	-	•	•

Electrical connections	DEA	DEM	DEU	DES	DLA	DLE	DT
10 Connection AMP Superseal series 1.5	-	•	-	•	-	-	-
20 Connection AMP Timer Junior	-	•	-	-	-	-	-
30 Connection Deutsch DT-04-2-P	-	•	-	•	-	-	-
35 Connection Deutsch DT-04-3-P	-	•	-	-	-	-	-
50 Connection EN 175301-803	•	-	•	-	-	•	-
51 Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	-	•	-	-
52 Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	-	•	-	-
70 Connection IEC 61076-2-101 D (M12)	-	-	-	-	-	-	•
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	-	•	-	-
80 Connection Stud #10-32 UNF	-	-	-	•	-	-	-

Option	
P01	MP Filtri standard
Pxx	Customized

Certifications	DEU	OTHERS
Without	-	•
UL UL certification	•	-

PLUGS

Series	
T2	Plug
T4	Plug

Seals	T2	T4
A NBR	-	•
H HNBR	•	-
V FPM	•	-

Configuration example	T2	H
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