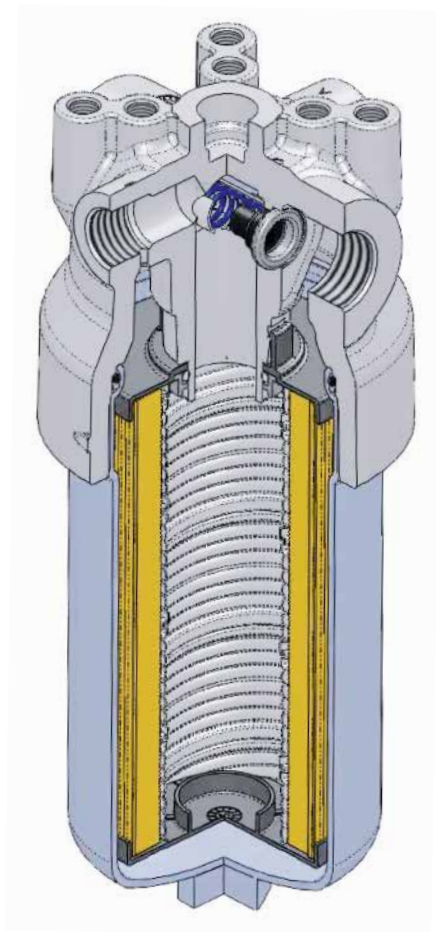
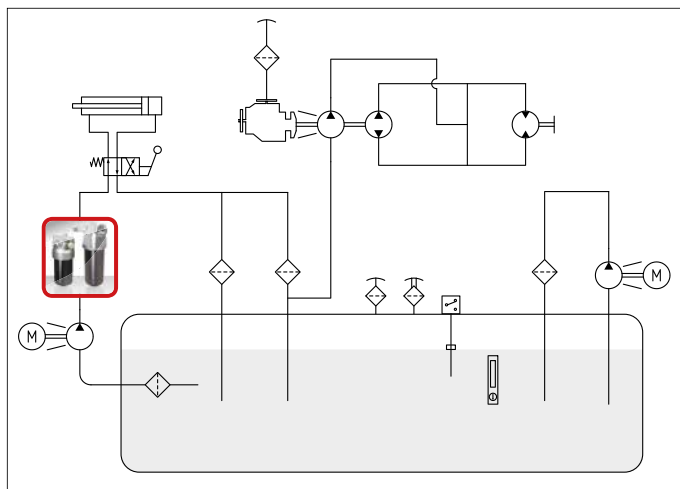


MDS



MEDIUM PRESSURE FILTER





MDS

5 MPa (50 bar)

Port sizes: 3/4" - 1" - 1 1/4" - 1 1/2"

Flow rates: 50 ÷ 420 l/min

TECHNICAL DATA

Working pressure: 5 MPa (50 bar)

Fatigue test: 0 ÷ 5 MPa (50 bar) / 1.000.000 cycles

Elements collapse differential pressure: 1 MPa (10 bar)

Working temperature: -25 ÷ +110°C

MATERIALS

Head: aluminium alloy

Bowl: steel

Seals: standard NBR
on request FKM

COMPATIBILITY (ISO 2943)

Full with fluids: HH-HL-HM-HV-HTG

(according to ISO 6743/4).

For fluids different than the above mentioned,
please contact our Sales Department.

All tests performed according
to the following standards:

ISO 2941: Element collapse resistance test

ISO 2942: Production integrity test

ISO 2943: Fluids compatibility

ISO 3723: End load test method

ISO 3724: Flow fatigue resistance method

ISO 3968: Pressure drop versus flow rate

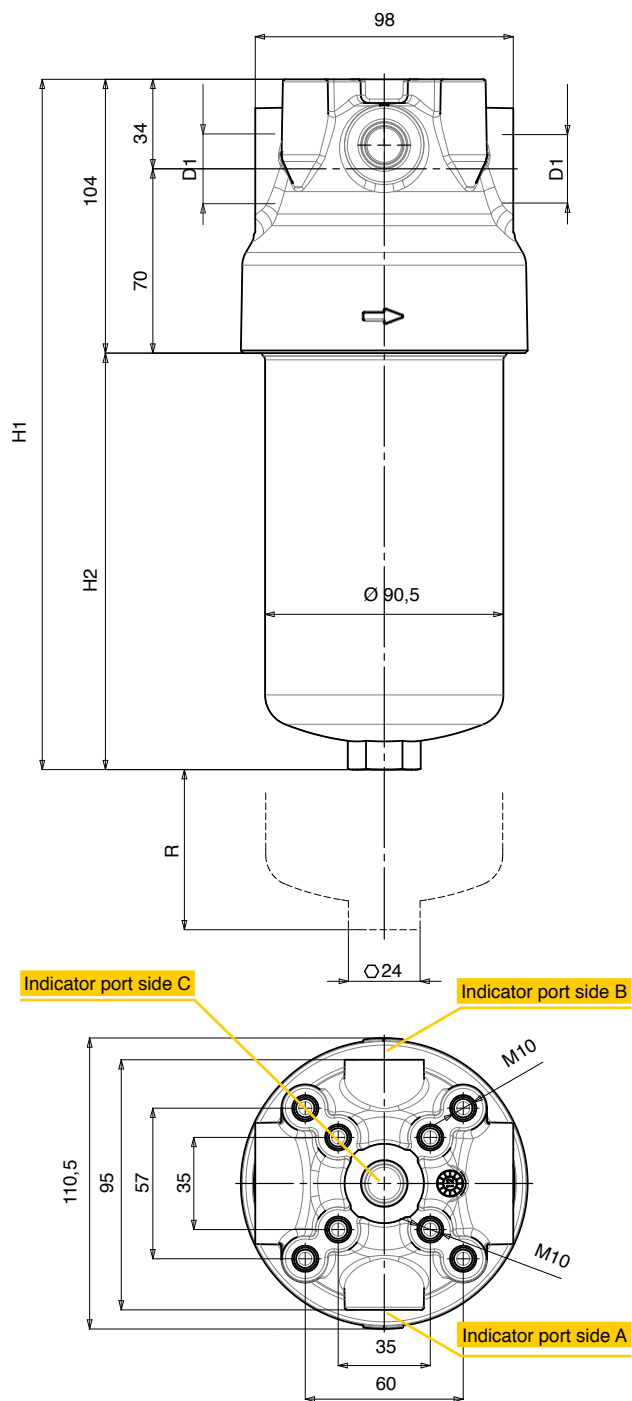
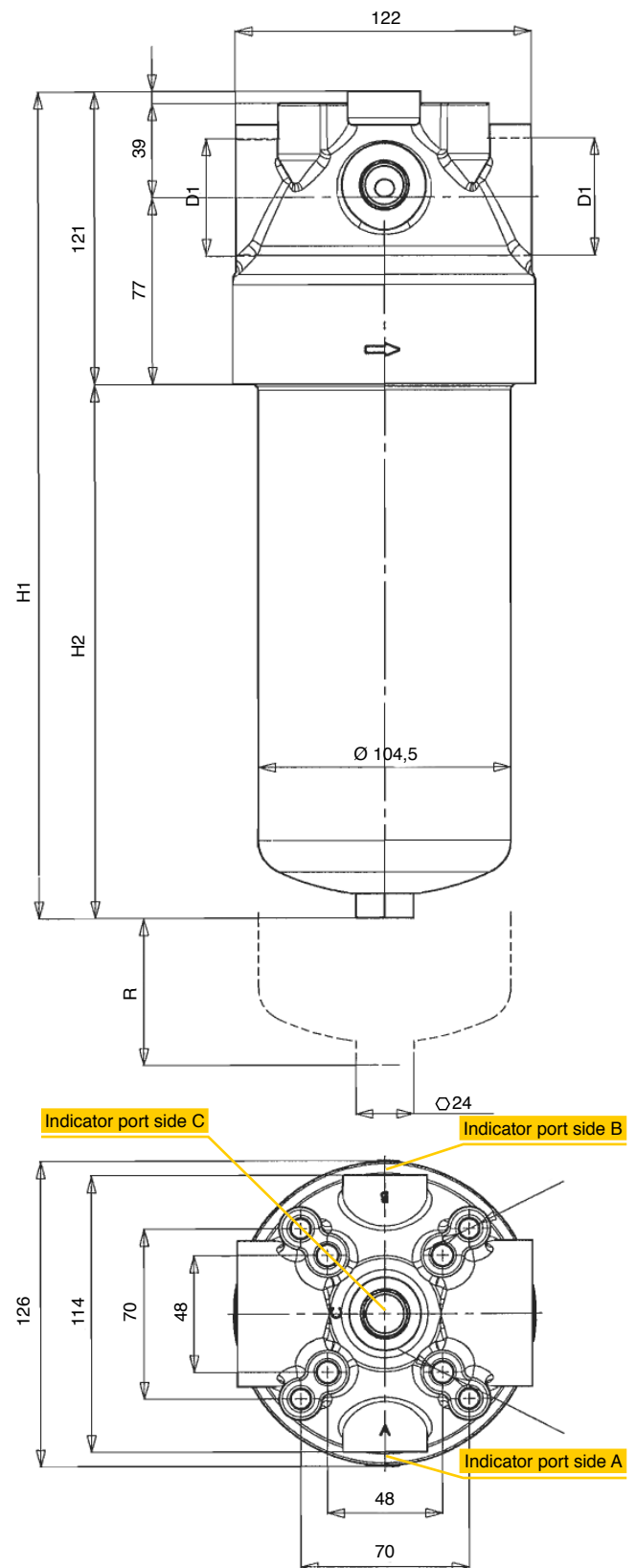
ISO 16889: Multipass test.

For further information contact our Technical Dept.

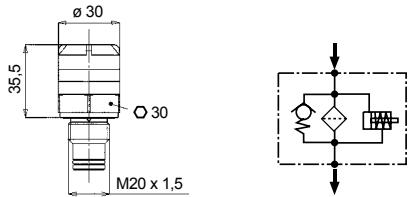
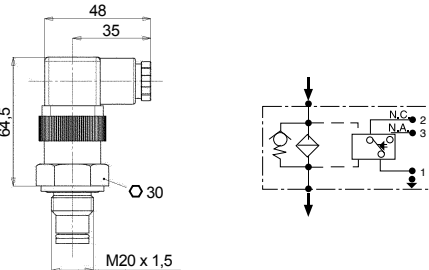
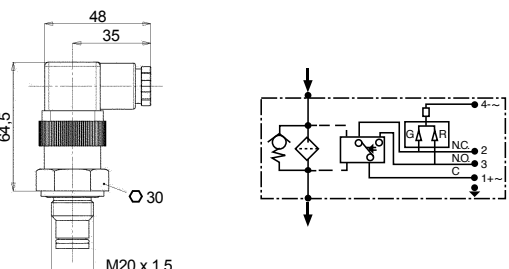
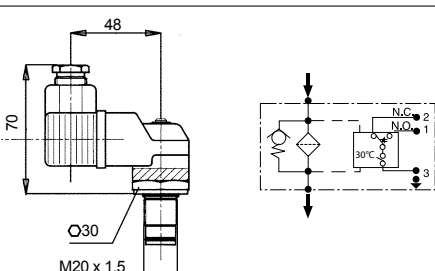
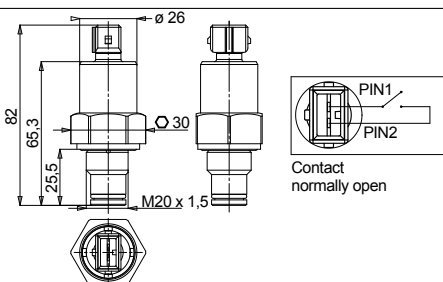
MDS	Type	205	210	220	310	Type	CDS
	Filter media					Filter media	
	FT = 5 μ m _(c)	FT	FT	FT	FT	FT = 5 μ m _(c)	
	FC = 7 μ m _(c)	FC	FC	FC	FC	FC = 7 μ m _(c)	
	FD = 12 μ m _(c)	FD	FD	FD	FD	FD = 12 μ m _(c)	
	FS = 16 μ m _(c)	FS	FS	FS	FS	FS = 16 μ m _(c)	
	FV = 21 μ m _(c)	FV	FV	FV	FV	FV = 21 μ m _(c)	
	CD = 10 μ	CD	CD	CD	CD	CD = 10 μ	
	CV = 25 μ	CV	CV	CV	CV	CV = 25 μ	
	MV = 25 μ	MV	MV	MV	MV	MV = 25 μ	
	MS = 60 μ	MS	MS	MS	MS	MS = 60 μ	
	MN = 90 μ	MN	MN	MN	MN	MN = 90 μ	
	Seals					Seals	
	1 = NBR Nitrile	1	1	1	1	1 = NBR Nitrile	
	2 = FPM Fluoroelastomer	2	2	2	2	2 = FPM Fluoroelastomer	
	Bypass type						
	S = Without	S	S	S	S		
	D = Bypass 350 kPa (3,5 bar)	D	D	D	D		
B	Ports						
	B = BSP	B	B	B	B		
	Port size						
	4 = 3/4"	4	4	4	-		
	5 = 1"	5	5	5	-		
	6 = 1" 1/4	-	-	-	6		
	7 = 1" 1/2	-	-	-	7		
	Indicators						
	00 = No indicator port	00	00	00	00		
	03 = Port, plugged	03	03	03	03		
	5D = Visual differential 250 kPa (2,5 bar)	5D	5D	5D	5D		
	6D = Electrical differential 250 kPa (2,5 bar)	6D	6D	6D	6D		
	7D = Electrical differential + LED 250 kPa (2,5 bar)	7D	7D	7D	7D		
	76 = Visual Electrical differential 250 kPa (2,5 bar)	76	76	76	76		
	X6 = Electrical differential 250 kPa (2,5 bar)	X6	X6	X6	X6		
When the filter is ordered with FKM seals, the first digit of the indicator code is a letter (please see page 188-189).							
	Accessories						
	S = No indicator port	S	S	S	S		
	A = Indicator port side A (see dwg)	A	A	A	A		
	B = Indicator port side B (see dwg)	B	B	B	B		
	C = Indicator port on the top (see dwg)	C	C	C	C		
X	Accessories						
	X = Not available	X	X	X	X		

DIMENSIONAL LAYOUT

(mm)

MDS 2 ...**MDS 3 ...**

Type	D1	H1	H2	R	Weight Kg
MDS 205	3/4" - 1"	202	98	70	2,00
MDS 210	3/4" - 1"	262	158	70	2,25
MDS 220	3/4" - 1"	342	238	70	2,80
MDS 310	1" 1/4 - 1" 1/2	341	220	70	3,50

NBR	FKM	Differential VISUAL indicator	Recommended tightening torque 90 Nm	
5D	AD	Setting 250 kPa (2,5 bar)		
NBR	FKM	Differential ELECTRICAL indicator	Recommended tightening torque 90 Nm	
6D	CD	Setting 250 kPa (2,5 bar)		
SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650				
NBR	FKM	Differential ELECTRICAL indicator with LED (24V) for visual indication	Recommended tightening torque 90 Nm	
7D	ED	Setting 250 kPa (2,5 bar)		
SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650				
NBR	FKM	Differential VISUAL ELECTRICAL indicator	Recommended tightening torque 90 Nm	
76	E6	Setting 250 kPa (2,5 bar)		
SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650				
NBR	FKM	Differential ELECTRICAL indicator	Recommended tightening torque 54 Nm	
X6	-	Setting 250 kPa (2,5 bar)		
N.O. differential switch. C.C. 28-48V: > max resistive or inductive load 5 - 3A respectively C.A. 125-250 V: > max resistive or inductive load 4A - Protection IP65-IP69K - Connector AMP timer				

FLOW RATES

(l/min)

Type	Filter Media	Δp 80 kPa (0,8 bar)
MDS 205	FT	55
	FC	70
	FD	80
	FS	85
	FV	90
	CD	105
	CV	115
	RD	130
	MV	130
	MS	150
	MN	150
MDS 210	FT	80
	FC	105
	FD	120
	FS	125
	FV	130
	CD	150
	CV	150
	RD	150
	MV	150
	MS	150
	MN	150

Type	Filter Media	Δp 80 kPa (0,8 bar)
MDS 220	FT	90
	FC	130
	FD	150
	FS	150
	FV	150
	CD	150
	CV	150
	RD	150
	MV	150
	MS	150
	MN	150
MDS 310	FT	260
	FC	270
	FD	310
	FS	340
	FV	360
	CD	400
	CV	400
	RD	400
	MV	400
	MS	400
	MN	400

The reference fluid has a kinematic viscosity of 30 cSt and a density of 0,86 Kg/dm³.
For different oil viscosity please contact our Sales Department for further information.

DIRT HOLDING CAPACITY(g) ISO MTD Δp = 500 kPa (5 bar)

Type	Filter Media				
	FT	FC	FD	FS	FV
CDS 205	10,5	12,3	14,4	18,0	22,7
CDS 210	17,3	20,4	24,0	30,0	37,9
CDS 220	26,7	31,4	37,0	44,0	56,8
CDS 310	28,0	36,2	40,5	49,0	58,8

FILTER AREA(cm²)

Type	Filter Media					
	CD	CV	RD	MV	MS	MN
CDS 205	1500	1500	1000	1000	1000	1000
CDS 210	2550	2550	1700	1700	1700	1700
CDS 220	3900	3900	2600	2600	2600	2600
CDS 310	5100	5100	3500	3500	3500	3500