

## Sizing table, CCU filters, MDO operation

### Trunk-piston engines MDO operation

Size of Moatti automatic LO filter				Filter capacity Q1 Allowed flow to the filter (m3/h)					
				Moatti filtering code					
Without diversion chamber		With centrifuge		A 03		A 05		A 07	
						Nom.	Max.	Nom.	Max.
LAM-180-	8	CCU-180-	14	9.5	12	13	15.5	14.5	17
"	14			17	21	22.5	27	25	30
"	20			24.5	30	32	34	34	-
LAM-240-	12	CCU-240-	12	24.5	30	31.5	38	35	42
"	18			36.5	45	47.5	57	53	63
"	24			48.5	60	63	76	70.5	84
"	30			60.5	75	79	90	88	90
"	36			72.5	90	90	-	90	-

#### MOATTI FILTERING CODE/FILTER FINENESS

Moatti filtering code	Filter fineness $\mu\text{m}$	
	Absolute 1)	Nominal 2)
A03	25	10
A05	35	20
A07	45	30

1) Absolute: Mesh size (Sphere passing mesh)

2) Nominal: 85-90% of all particles with a diam. larger than the figure in the table are retained.

#### EXAMPLES OF FILTER FINENESS SPECIFICATIONS:

Engine manufacturer	Engine type	Filtration fineness (abs)	Filtration code
MAN B&W	All models	35 $\mu$	A05
Pielstick before Dec. 88	All models	(*)	(*)
Pielstick since Dec. 88	All models	35 $\mu$	A05
Sulzer	All models	35 $\mu$	A05
Wärtsilä	All models	35 $\mu$	A05
Other TP engines		35 $\mu$	A05

(\*) Contact Alfa Laval Moatti snc for further information.

#### DIMENSIONING

**General rule:** Select the filter from "Nom" column.  
**Select Q1  $\geq$  pump capacity (QP)**  
 QE = QP - Q3

**Q1** = Filter capacity (allowed flow to the filter)  
**QP** = Pump capacity  
**Q3** = Flow of back-flushed oil = 3-5% of QP  
**QE** = Flow to engine

#### References

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