POWER TRANSMISSION PRODUCTS

ACCESSORIES



PASSION TO PERFORM





A WORLDWIDE LEADER IN THE FIELD OF HYDRAULIC FILTRATION EQUIPMENT.

Our company started life in 1964, when Bruno Pasotto decided to attempt to cater for the requests of a market still to be fully explored, with the study, design, development, production and marketing of a vast range of filters for hydraulic equipment, capable of satisfying the needs of manufacturers in all sectors. The quality of our products, our extreme competitiveness compared with major international producers and our constant activities of research, design and development has made us a worldwide leader in the field of hydraulic circuit filtering. Present for over 50 years in the market, we have played a truly decisive role in defining our sector, and by now we are a group capable of controlling our entire chain of production, monitoring all manufacturing processes to guarantee superior quality standards and to provide concrete solutions for the rapidly evolving needs of customers and the market.



MARKET **LEADER**



Our work is based on a skillful interaction between advanced technology and fine workmanship, **customizing products according to specific market requests**, focusing strongly on innovation and quality, and following every step in the manufacturing of both standard and special products, fully respecting customer expectations.

Our customer-oriented philosophy, which enables us to satisfy all customer requests **rapidly** and **with personalized products**, makes us a **dynamic and flexible enterprise**. The possibility of constantly controlling and monitoring the entire production process is essential to allow us to guarantee the quality of our products.

WORLDWIDE PRESENCE

Our foreign Branches enable us to offer a diversified range of products that allow us to successfully face the aggressive challenge of international competition, and also to maintain a stable presence at a local level.







TECHNOLOGY

Our constant **quest for excellence in quality and technological innovation** allows us to offer only the best solutions and services for applications in many fields, including general industry, test rigs, lubrication, heavy engineering, renewable energies, naval engineering, offshore engineering, aviation systems, emerging technologies and mobile plant (i.e. tractors, excavators, concrete pumps, platforms).

AND PRODUCTION

Our high level of technological expertise means **we can rely entirely on our own resources, without resorting to external providers.** This in turn enables us to satisfy a growing number of customer requests, also exploiting our constantly updated range of machines and equipment, featuring **fully-automated workstations** capable of **24-hour production**.











Flow rates up to 875 l/min

Mounting:

- Tank immersed
- In-Line
- In tank with
- shut off valve
- In tank
- with flooded suction



RETURN **FILTERS**

Flow rates up to 3000 l/min

Pressure up to 20 bar

Mounting: - In-Line - Tank top - In single

6

and duplex designs



RETURN / SUCTION **FILTERS**

Flow rates up to 300 l/min

Pressure up to 80 bar

Mounting: - In-Line - Tank top

SPIN-ON **FILTERS**

Flow rates up to 365 l/min

Pressure up to 35 bar

Mounting: - In-Line - Tank top

Flow rates

Pressure up to 80 bar

Mounting:

- In-Line
- Parallel manifold version
- In single

LOW & MEDIUM PRESSURE **FILTERS**

up to 3000 l/min

- and duplex designs



PRESSURE FILTERS

Flow rates up to 750 l/min

Pressure from 110 bar up to 560 bar

- Mounting:
- In-Line
- Manifold
- In single
 - and duplex designs



PRODUCT RANGE

MP Filtri can offer a vast and articulated range of products for the global market, suitable for all industrial sectors using hydraulic equipment.

This includes filters (suction, return, return/suction, spin-on, pressure, stainless steel pressure) and structural components (motor/pump bell-housings, transmission couplings, damping rings, foot brackets, aluminium tanks, cleaning covers).

We can provide all the skills and solutions required by the modern hydraulics industry to monitor contamination levels and other fluid conditions.

Mobile filtration units and a full range of accessories allow us to supply everything necessary for a complete service in the hydraulic circuits.



STAINLESS STEEL HIGH PRESSURE FILTERS

Flow rates up to 150 l/min

Pressure from 320 bar up to 1000 bar

Mounting:

- In-Line
- Manifold
- In single
- and duplex designs



CONTAMINATION MONITORING PRODUCTS

- Online, in-line particle counters - Off-line Bottle sampling products
- Fully calibrated using relevant ISO standards
- A wide range of variants to support fluid types and communication protocols



Flow rates from 15 l/min up to 200 l/min

- Aluminium bell-housings for motors from 0.12 kW to 400 kW

POWER

PRODUCTS

- Couplings in Aluminium
- Cast Iron Steel
- Damping rings
- Foot bracket
- Aluminium tanks
- Cleaning covers

ACCESSORIES TRANSMISSION

- Oil filler and

- air breather plugs - Optical and electrical
- level gauges
- Pressure gauge valve selectors
- Pipe fixing brackets - Pressure gauges

POWER TRANSMISSION PRODUCTS



INDEX

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1	COMPANY
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10	BELL-HOUSING & COUPLING SIZING
12	SELECTION SOFTWARE

15 page		COUPLINGS
16		General Information
21	SGEA - SGEG - SGES - EGE	Flexible half-couplings
39	SGDR - EGR	Gear couplings

45 page		BELL-HOUSING
46		General Information
51	LMG	Bell-housing with rectangular flange
63	LMC - LDC	Bell-housing for piston, screw and vane pumps
71	LMS - LDS	Bell-housing - Low Noise
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-HOUSING & COUPLING SIZING

A GUIDE TO SELECT THE CORRECT BELL-HOUSING AND DRIVE COUPLING

DATA REQUIRED

- Electric motor power/motor size

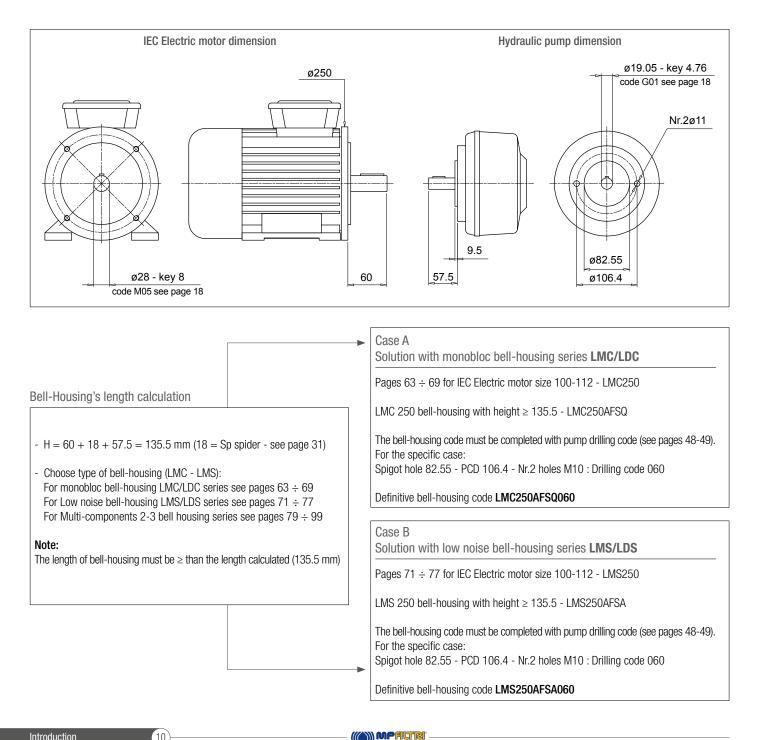
- Manufacturer and pump type

TO VERIFY:

- 1 Pump and motor shaft dimensions (see electric motor data sheet)
- 2 Shaft and flange pump (see pump data sheet)

Example:

- Electric motor 2.2 kW size 100-112
- Atos pump code PFE31 Shaft 1



A GUIDE TO SELECT THE CORRECT BELL-HOUSING AND DRIVE COUPLING

Coupling selection

Motor half-coupling (see page 26) For IEC Electric motor size 100/112, the half-coupling is **SGEA21M05060FG**

Spider (see page 31) For SGEA21, EGE2 - EGE2RR (choose spider material on the base of the application, oil, temperature and cycle machine, etc.)

Pump half-coupling

Choose the drilling code - see pages 18-19 for shaft 19.05 - key 4.76 - code: GO1

 $\begin{array}{l} \mbox{Pump half-coupling length} = \mbox{BH length} - \mbox{THK Spider} - \mbox{THK Spiget} \\ \mbox{LMC} = 138\mbox{ mm} - 60 - 18 - 9.5 = 50.5\mbox{ mm} \\ \mbox{LMS} = 148\mbox{ mm} - 60 - 18 - 9.5 = 60.5\mbox{ mm} \end{array}$

LMC - Choose the half-coupling's length at page $26 \le 50.5$ mm. LMS - Choose the half-coupling's length at page $26 \le 60.5$ mm. LMC - Available length for SGEA21 = 50 mm LMS - Available length for SGEA21 = 60 mm Half coupling for LMC: **SGEA21G01050FG** Half coupling for LMS: **SGEA21G01050FG**

SOFTWARE FOR AUTOMATIC CALCULATION

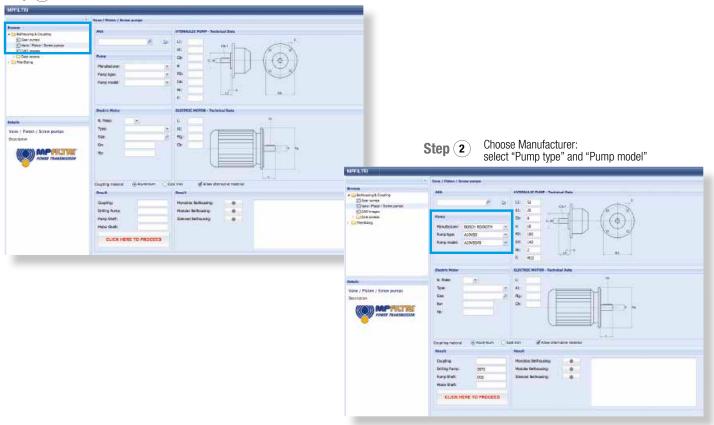
available on the web site www.mpfiltri.com

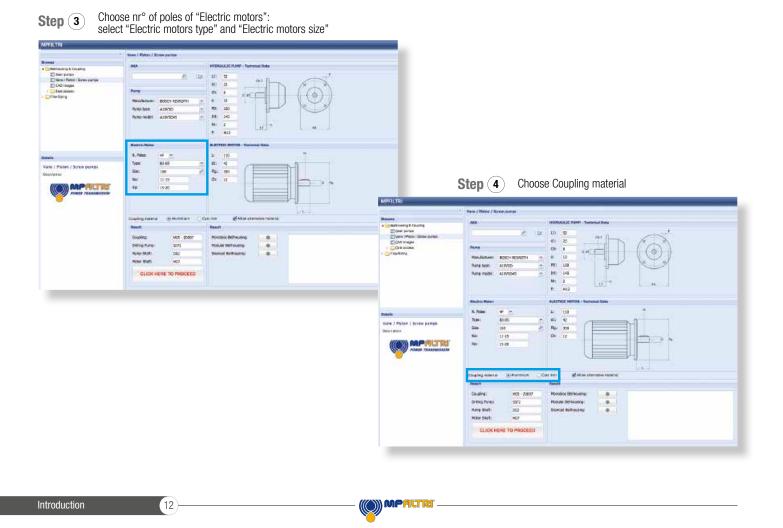


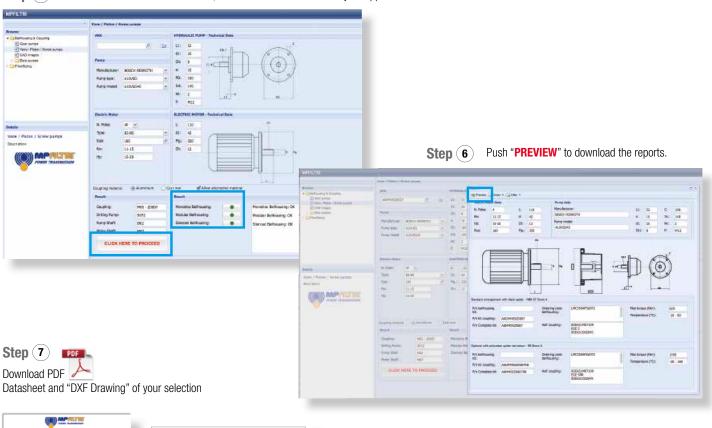
Note: for multi pumps we recommend to use a specific support on the base of the pump's dimensions and weight.



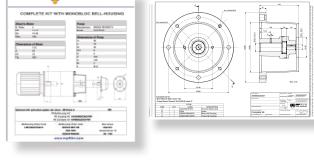
Step (1) Select "BELL-HOUSING & COUPLING"







Step (5) Push "**CLICK HERE TO PROCEED**", then choose best solution for your application.



	You ca	an't find t	he pi	ump or	n th	e syster	n?
HP Cilent Security	Propy data Promy data Code: Const Code: Code: Const Code: Code: Cod	1007/1302	, N - 2		D	a construction of the second s	Insert pump's dimension on the section "INSERT PUMP" and follow the instructions to achieve the couplings components code
	Amp Hits Han Amper Para History Internet The Apper Define mate	Spiget - 1994 Beign 1976 1976 1976 1976 1976	Mecraab 127 145 127 146 157	Olamona Habbo Mito Mito Mit2 Mit2 Mit2	Nortur 4 2 4 2 8	Celling code 02/24 01/25 00 000000000000000000000000000000000	



The range of products is completed by a number of accessories, including:

DAMPING RINGS, intended mainly for use with motor-pump units positioned vertically and with the pump submerged in the oil tank.

FOOT BRACKETS, which serve to support the motor pump unit in the event that the selected electric motor does not have mounting feet.

DAMPING RODS, to be mounted under the electric motor feet or under the foot brackets.

CLEANING COVERS, facilitating the maintenance of oil tanks in hydraulic power units, without necessarily having to dismantle the unit.

ALUMINIUM TANKS of 10 litres capacity, allowing the assembly of a compact hydraulic power unit.



Accessories



ANM A	Damping rings	page 102
PDM A	Foot brackets	104
MPDR PDMA - MPDR	Damping rods	105
OB	Cleaning covers	106
SE10	Aluminium tanks	111



ACCESSORIES

Technical data

Positioned between the bell-housing motor flange and lid of the tank, they help to reduce the transmission of the vibrations and emission of noise generated by the system.

Damping rings provide a perfect hydraulic sealing actions by virtue of their special profile; damping rings are available for IEC electric motors from size 80 to size 315.

Compatibility with fluids

- Mineral oils types HH-LL-HM-HR-HV-HC, to ISO 6743/4 standard
- Water based emulsions types HFAE-HFAS, to ISO 6743/4 standard
- Water glycol type HFC, to ISO 6743/4 standard: ask for anodized version

Materials Internal ring: pressure die-cast aluminium alloy External body: NBR 75 Shore A

Temperature From -30 °C to +80 °C

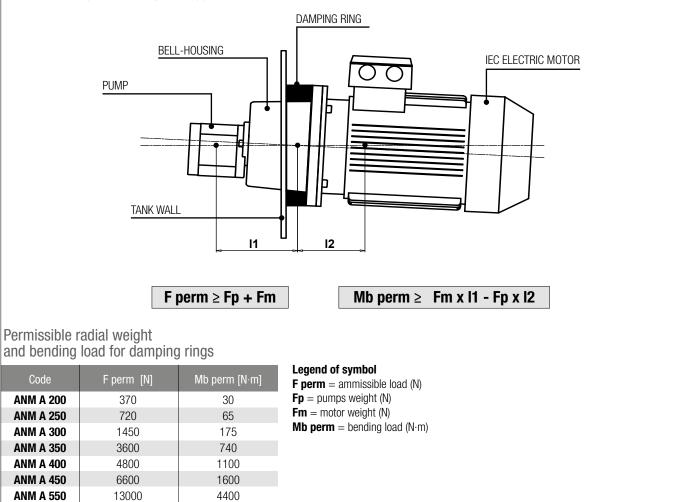
Special Applications

Any applications not covered by the normal indications contained in this catalogue must be evaluated and approved by MP Filtri Technical and Sales Department

Example of assembly

In order to warranty the application, to proceed with the calculation of the max weight and moment with the following formulas.

Values higher than those in the table could damage the product and couldn't warranty the conformity of the application!



ANM A 660

24000

DAMPING RINGS

ANM A 450

ANM A 550

ANM A 660

225S / 225M

250M, 280M / 280S

315M / 315S

352

452

552

450

550

660

400

500

600

60

60

67

() MPALTRI

M16x25

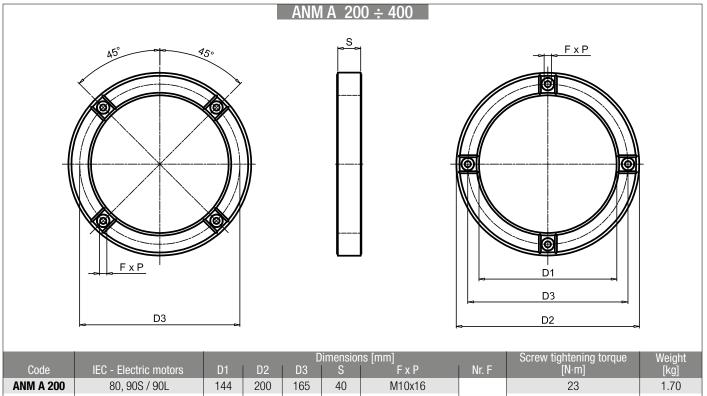
M16x25

M20x25

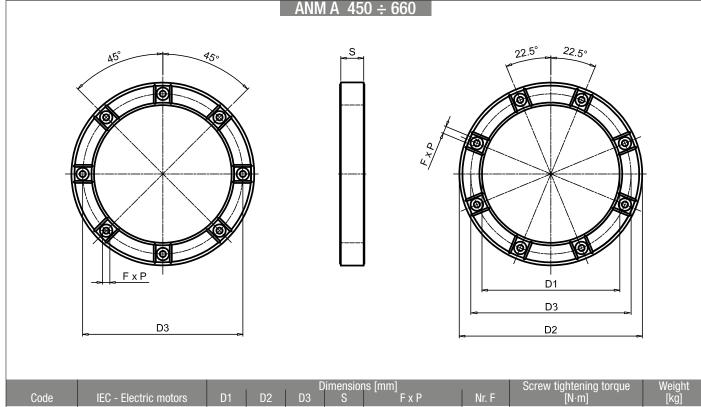
8+8

ACCESSORIES

Dimensions



ANM A 400	200L	301	400	350	50	M16x25		100	4.60
ANM A 350	160L/160M, 180L/180M	260	350	300	58	M16x20		100	3.95
ANM A 300	132S / 132M	238	300	265	50	M12x16	4+4	40	2.15
ANM A 250	100L / 112M	191	250	215	45	M12x16		40	2.53
ANM A 200	80, 90S / 90L	144	200	165	40	M10x16		23	1.70



(103)

100

210

410

Accessories

6.20

7.76

11.25

ACCESSORIES

Technical data

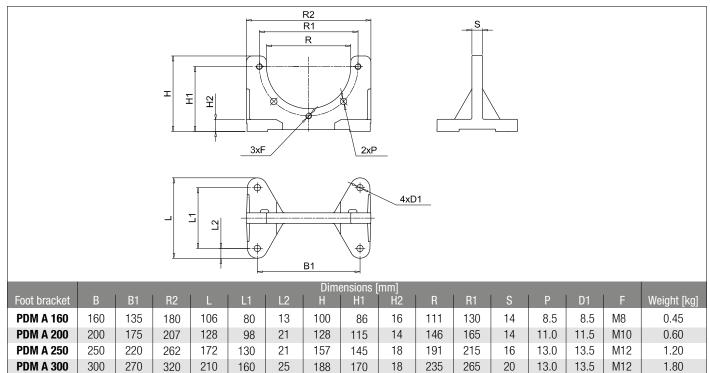
The foot brackets are proportioned to support IEC Electric motors with B5 flange without feet.

The range is available from size 71 to size 180.

Compatibility with fluids

- Mineral oils types HH-LL-HM-HR-HV-HC, to ISO 6743/4 standard
- Water based emulsions types HFAE-HFAS, to ISO 6743/4 standard
- Water glycol type HFC, to ISO 6743/4 standard: ask for anodized version

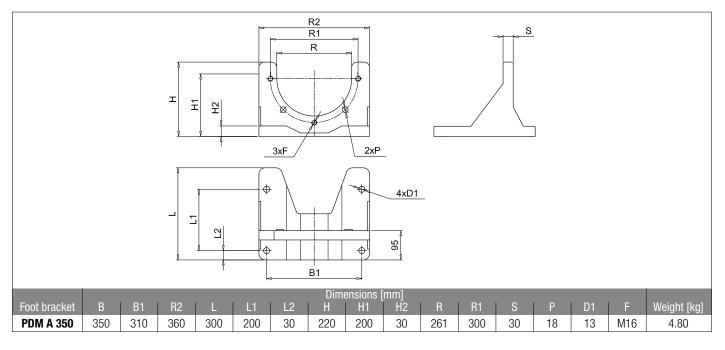
Dimensions



Materials

Temperature From -30 °C to +80 °C

Foot bracket: pressure die-cast aluminium alloy



Accessorie



DAMPING RODS

Technical data

Damping rods are element to reduce the transmission of the vibrations and emission of noise generated of the system.

Damping rods are available for IEC Electric motors from size 71 to size 315L and for MP FILTRI foot bracket

Compatibility with fluids

- Mineral oils types HH-LL-HM-HR-HV-HC, to ISO 6743/4 standard
- Water based emulsions types HFAE-HFAS, to ISO 6743/4 standard
- Water glycol type HFC, to ISO 6743/4 standard: ask for anodized version

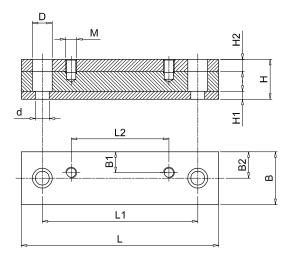
Materials Plate: steel black colour Damping element: NBR 60 Shore A

Temperature From -20 °C to +80 °C

Special Applications

Any applications not covered by the normal indications contained in this catalogue must be evaluated and approved by the MP Filtri Technical and Sales Department

Dimensions



Damping rods for foot	t brackets	PDMA se	ries.									For foc	t brackets see page 104
						Dimensio	ons [mm]						
Code	L	L1	L2	В	B1	B2	H İ	H1	H2	D	d	M	Weight [kg]
MPDR PDMA160	196	156	80	50	21	25	40	8	12	20	14	M8	1.5
MPDR PDMA200	196	156	98	50	21	25	40	8	12	20	14	M10	1.5
MPDR PDMA250	240	205	130	50	24	25	40	8	12	20	14	M12	2.0
MPDR PDMA300	280	245	160	50	20	25	45	8	12	20	14	M12	2.5
MPDR PDMA350	446	400	200	70	35	35	60	15	15	26	14	M12	8.0
Damping rods for elec	ctrical mot	tors UNEL	-MEC										
Code	L	L1	L2	В	B1	B2	Н	H1	H2	D	d	Μ	Weight [kg]
MPDR 71	196	156	90	50	21	25	40	8	12	20	14	M6	1.5
MPDB 80	176	146	100	50	22	25	40	8	12	20	14	M8	1.7

MPDR / I	196	156	90	50	21	25	40	8	12	20	14	IVI6	1.5
MPDR 80	176	146	100	50	22	25	40	8	12	20	14	M8	1.7
MPDR 90S	196	156	100	50	24.5	25	40	8	12	20	14	M8	1.7
MPDR 90L	240	205	125	50	24	25	40	8	12	20	14	M8	2.0
MPDR 100L	240	205	140	50	22	25	40	8	12	20	14	M10	2.0
MPDR 132S	280	245	140	50	20	25	45	8	12	20	14	M10	2.5
MPDR 132M	280	245	178	50	20	25	45	8	12	20	14	M10	2.5
MPDR 160M	340	300	210	70	28	35	60	15	15	26	18	M12	6.0
MPDR 160L	416	370	254	70	28	35	60	15	15	26	18	M12	7.5
MPDR 180M	416	370	241	70	35	35	60	15	15	26	18	M12	7.5
MPDR 180L	446	400	279	70	35	35	60	15	15	26	18	M12	8.0
MPDR 200L	492	430	305	70	35	35	60	15	15	33	22	M16	8.9
MPDR 225S	492	430	286	70	35	35	60	15	15	33	22	M16	8.9
MPDR 225M	492	445	311	70	35	35	60	15	15	33	22	M16	8.9
MPDR 250M	492	445	349	100	50	50	60	15	15	33	22	M20	12.5
MPDR 280S	614	570	368	100	50	50	60	15	15	33	22	M20	15.1
MPDR 280M	614	570	419	100	50	50	60	15	15	33	22	M20	15.1
MPDR 315S	614	570	406	120	60	60	60	15	15	33	22	M24	26.5
MPDR 315M	614	570	457	120	60	60	60	15	15	33	22	M24	26.5
MPDR 315L	704	660	508	120	60	60	60	15	15	33	22	M24	29.2



ACCESSORIES

Technical data

These pressure die-cast aluminium alloy doors offer superior mechanical strength and are manufactured to DIN 24339 standard. They provide easy access to the inside of the oil tank for inspection and cleaning purposes.

On request and for small quantities, to be agreed with MP Filtri Technical and Sales Department, inspection doors can be supplied with:

- Customer logo.
- Hole cut for visual level indicator.
- Hole cut for visual and electrical level indicator.
- Oil sample plug
- Compatibility with fluids
- Mineral oils types HH-LL-HM-HR-HV-HC, to ISO 6743/4 standard
- Water based emulsions types HFAE-HFAS, to ISO 6743/4 standard
- Water glycol type HFC, to ISO 6743/4 standard: ask for anodized version

Materials

Cleaning covers: pressure die-cast aluminium alloy / cast iron Seal: NBR 70 Shore A $\,$

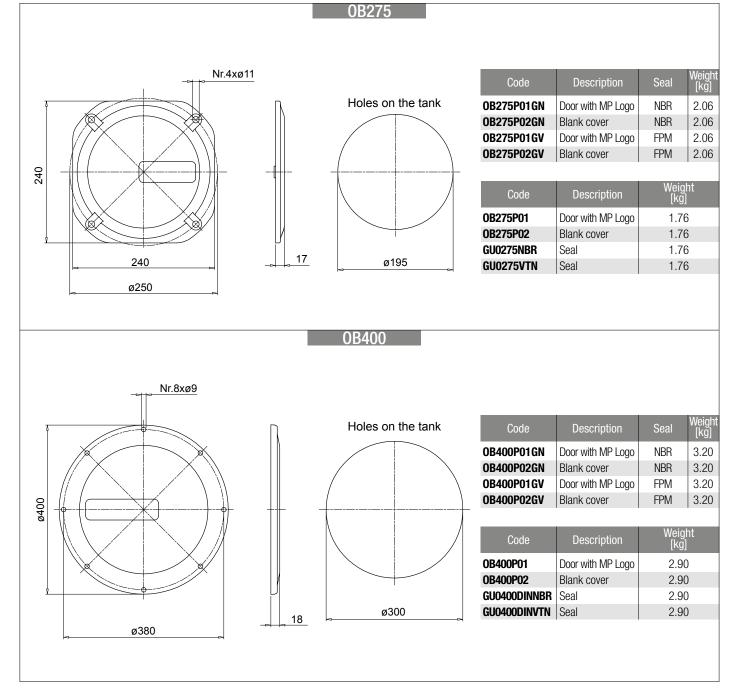
Temperature From -30 °C to +80 °C

Special Applications

Any applications not covered by the normal indications contained in this catalogue must be evaluated and approved by MP Filtri Technical and Sales Department

Dimensions

Cleaning cover according to DIN 24339

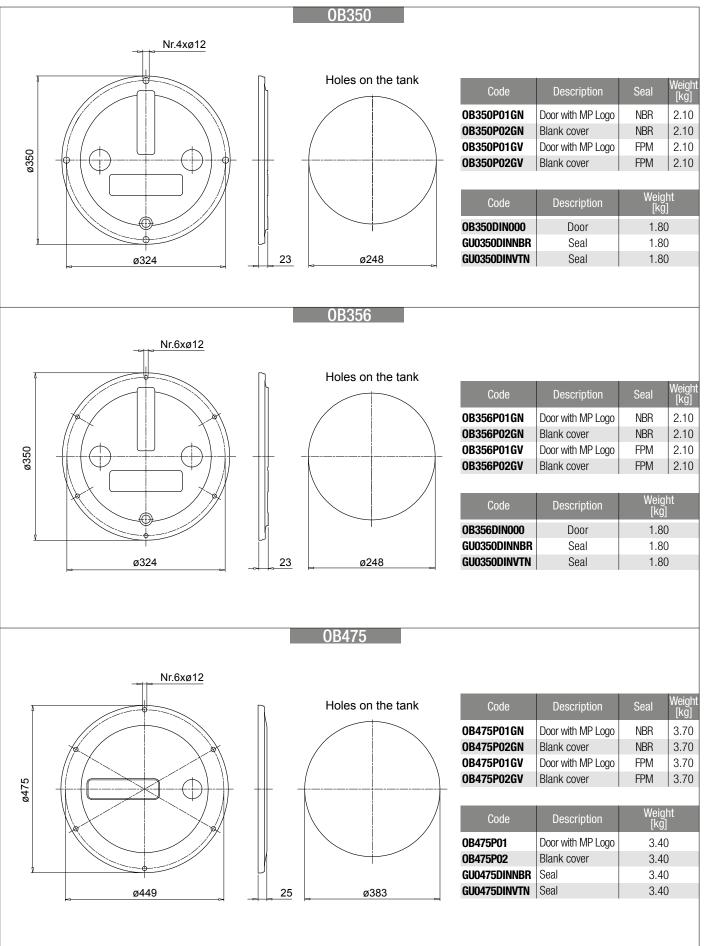




CLEANING COVERS



Dimensions





ACCESSORIES

CLEANING COVERS OPTIONS

Visual level indicators LVA series

Technical data

 Materials

 Transparent amorphous polyamide lens

 Nylon guard

 Seal: Series A-NBR - Series V-FPM

 Operating pressure

 Max 1 bar at +80°C

 Operating temperature

 From -25 °C to +80 °C

 Tightening torque

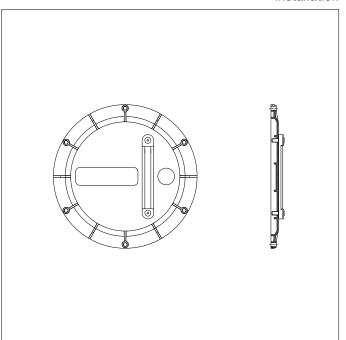
 10 N-m max.

 Mineral oils

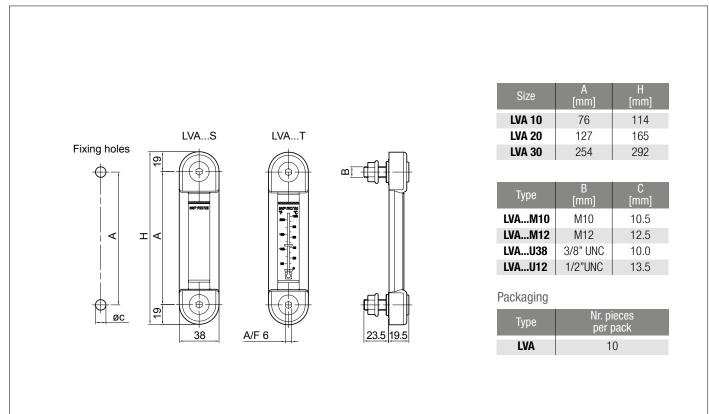
 Synthetic oils

 Water base emulsions

 Phosphoric esters



Dimensions



Preparing for to fit the level on request

LVA 20** LVA 30**		•	•	•	•
LVA 10**	•	•	•	•	•
Indicator code	OB275**	OB350**	OB356**	0B400**	OB475**



Installation

CLEANING COVERS OPTIONS

Electrical float level indicators **LEG** series

Technical data

LEG series electrical level indicators are supplied with a 3-hole fixing flange and a reed switch having NC-NO contacts.

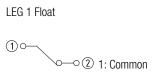
Designed typically for installation on the vertical walls of oil tanks, these instruments can also be mounted to inspection doors of the OB475 series as indicators of minimum and maximum oil levels in the tank.

Warning

To operate correctly, the float must be positioned vertically and at a minimum distance of 35 mm from walls made of ferrous metal.

To change the contact from NC to NO, simply turn the float upside down.

The electrical properties indicated are referred to resistive loads; for capacitive and inductive loads and incandescent lamps, use protection circuits.

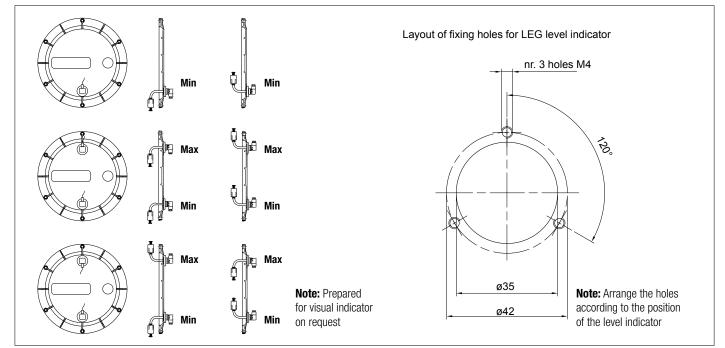


⊕ •-----• ⊕ 2: Level

Electrical symbol:

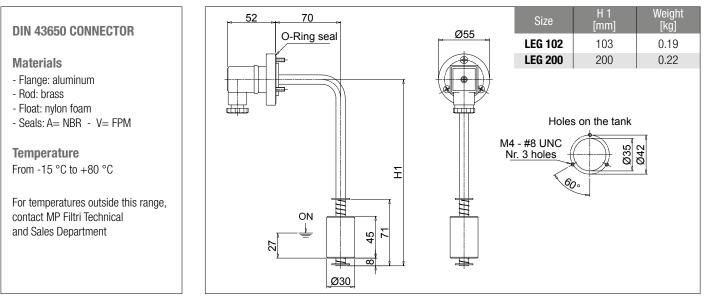
Note: to invert the contact status from NC to NO and vice versa, simply invert the float.

Installation



Optional

Dimensions

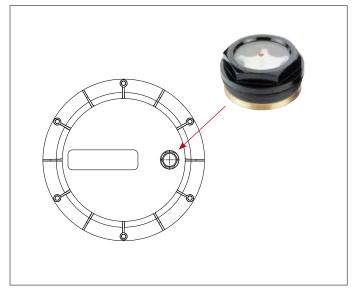




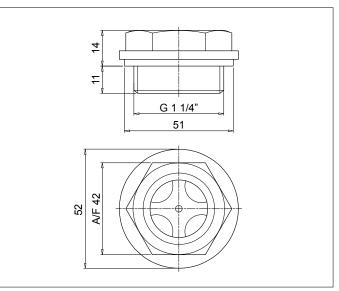
ACCESSORIES CLEANING COVERS OPTIONS

Visual level indicators code LCPG42N...S

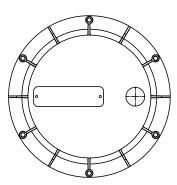
Installation



Dimensions



Available customization



Nameplate with customer logo Ordering information: **OB475LOGOP05**

())) MPFILTRI

The nameplates applied to the new inspection door are identical to those applied to the old door. The difference with the new door is that nameplates are fixed with rivets.

For ordering information codes, minimum order quantities, fixing hole positions and other details not indicated in this publication, contact MP Filtri Technical and Sales Department.

Technical data

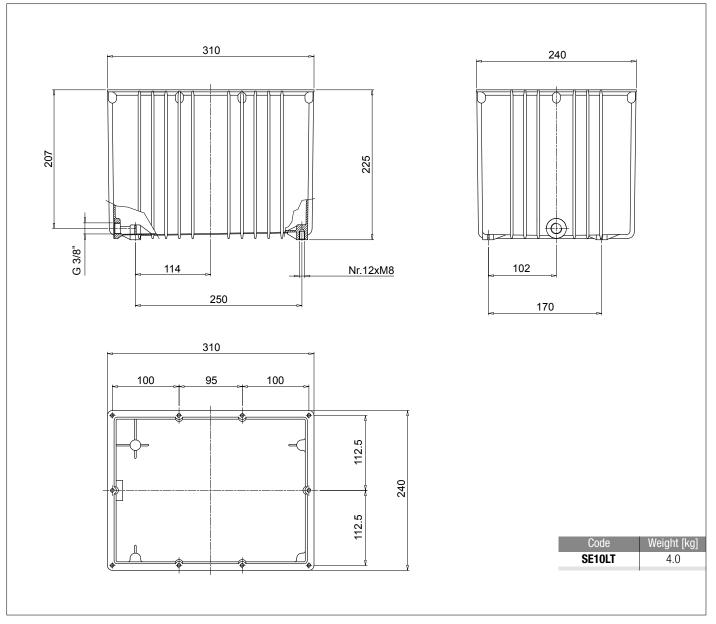
Made of pressure die-cast aluminium alloy, these tanks feature superior strength and optimum design and are ideal for compact hydraulic power units.

Generously proportioned fins ensure efficient cooling.

The tank is supplied with:

- M6 threaded fixing holes for lid
- feet with M8 threaded fixing holes
- G 3/8" threaded drain hole

The lid is sealed by a gasket made of special paper, which must be ordered separately indicating code "GUS 10.0".



()) MPALTRI

Dimensions

(111)



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