

TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS



TECHNICAL SPECIFICATIONS

FILTRATION


The state of oil used for hydraulic systems and machines is one of the main factors for proper use and performance. Use of excessive dirty oil may lead to earlier wearing of parts and components, faster hardening and thus functional troubles of your equipment. Due Filtration is a must to assure top efficiency and life of your hydraulic equipment. Selection of the most suitable filtration systems must be done according to the technical features of your equipment. However, the following table provides most current oil recommendations.

HYDRAULIC OILS

The use of mineral based oil is recommended (like HLP to DIN 51524). All performances and calibrations are carried out by using hydraulic oil with approximate viscosity of 46 cSt at 40° C.

VISCOSITY CLASS

Normally expressed as ISO-VG in accordance to ISO DIN standards. Average viscosity is figured at 40°C (mm 2/s or centistokes - cSt). Recommended oil viscosity for NEM parts is: from 15 cSt to 250 cSt.

		Chart: Selection of filtration		
Filtration type	Type of equipment Nominal filtration (micron)	Absolute Filtration as for ISO 4572	Polluting class	
			ISO4406	NAS1653
High pressure equipment (>200 bar) Proportional valves reachin to dirty	5	X=5.....10	19/17/14	8
Medium pressure equipment (<200 Bar)	10	X=10.....15	20/18/15	9

POLLUTING CLASS ISO 4406

with two figures respectively showing the quantity of 5 and 15µ or larger particles in 1 ml oil.

MATERIALS

The valves are made out high quality steel, while all movable parts are hardened and rectified. Manifolds are produced in steel or aluminum in relation to the max working pressure.

POLLUTING CLASS NAS 1653

Expressed with one figure showing the quantity of variable size particles in 100 ml oil.

SEALING

O-RING. made out of butadiene/acrylonitril(BUNAN or NBR according to ASTM standards). The ASTM standards D76 set a brittleness safety temperature of -30°C +125° C. For use at higher temperature consult our technical office.

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BACK UP RINGS

Made out of poly-tetrafluoroethylene (PTFE).

Q - RINGS: special sealing gaskets with 4 shaped lobes designed to prevent gaskets pull-off chances in case of dynamic applications. All O-rings are made out of Acrylonitril-Butadiene (NBR).

CARTRIDGE VALVE INSTALLATION

PLEASE CAREFULLY READ THESE INSTRUCTIONS BEFORE VALVE INSTALLATION

Check-up general valve conditions and make sure there is no dirt. Check-up gaskets and seals conditions identifying their exact location. Lubricate the seals. First hand screw the cartridge in. Tightening should be performed according to the technical datas listed for each product.

TEST CURVES

All diagrams in this catalogue report performance curves obtained by use of mineral oil at ISO viscosity VG46 and at 40° C temperature.

STORAGE

Keep valves away and protected from the sunlight and any other heat/ozone source. Make sure that an ideal storage temperature of -20 :+50°C is available.

TEMPERATURE LIMITS

Ambient temperature:
from -20° C to +50°C

Oil temperature:
from -20° C to +90°C

DESIGN AND INSTALLATION WORK

All NEM valves and manifolds are function tested after assembly. Technical features and operation limits are statistically tested. As for all components which are then to be mounted on other equipment, real working conditions may not be lab simulated at the manufacturer's. This means that the customer is always ultimately responsible for the choice and final use of the product. Valves and manifolds in this catalogue are very versatile. However they are strictly recommended for use on equipment complying with the European regulation no. 89/392 and following amendments. No installation should be done on equipment without above mentioned European approval.

DISPOSAL INDICATIONS

All the products, protections, plugs and packaging material at the end of their utilization have to be disposed in according with the regulations in force.



GENERAL CONDITIONS

1. GENERAL

1.1 These general conditions are applicable to all the supplies which Nem s.r.l. will carry out, on the base of purchasing orders forwarded from the Customer.

1.2 Terms like EXW, DDP and so on are referred to the so called Incoterms published by the International Chamber of Commerce, current at the date of conclusion of these General Conditions.

2. PURCHASING ORDERS MANAGEMENT

2.1 Purchasing orders are binding for Nem s.r.l. only if confirmed in writing with order confirmations.

2.2 Nem s.r.l. engages itself to supply goods up to the order confirmations.

2.3 Any complaints regarding the content of the order confirmation must be notified in writing to Nem s.r.l. by 5 days and no later the forwarding of the order confirmation.

2.4 The Customer undertakes to pay the goods supplied by Nem s.r.l., according to the prices listed on the order confirmation.

3. PAYMENT CONDITIONS

3.1 The Parties agree upon the payment conditions at the beginning of the supply.

3.2 In case of delay of payment, Nem s.r.l. will have the right to request of moratory interests equal to the Euribor, increased by 2 points.

3.3 In case of delay of payment, Nem s.r.l. will have the right to not execute the eventual purchasing orders in progress, even if confirmed.

4. DELIVERY AND SHIPMENT

4.1 The supply of the goods will always be Ex-Works, even in the case that Nem s.r.l. had agreed with the Customer that Nem s.r.l. takes care of the shipment, or part of it.

4.2 In any case, the risks about perishment or damage of the goods will pass to the Customer, at latest, when the goods are delivered to the first carrier.

5. CHARACTERISTICS OF PRODUCTS

5.1 Nem s.r.l. engages itself to supply good quality products, up to the technical specifications contained in technical schedules or in the catalogue.

5.2 Nem s.r.l. reserves the exclusive right to make any change to the products, which, without altering their essential features, appear to be necessary or suitable.

6. COMPLAINTS

6.1 The complaints regarding the apparent defects of the Products (such as, for instance, the packing, quantity, number or exterior features of the Products) must be notified in writing to Nem s.r.l. by 7 days and no later upon the receipt of the goods. Failing such notification, the Customer's right to claim the above defects will be forfeited.

6.2 The hidden defects (defects which cannot be discovered by the Customer on the basis of a careful inspection upon the receipt) shall be notified in writing to Nem s.r.l. by 7 days and no later from the discovery of the defects, and in any case no later than 18 months from the delivery of the Goods. Failing such notification, the Customer's right to claim the above defects will be forfeited.

6.3 It's agreed that, even in case of any complaint or objection, the Customer will not have the right to suspend or delay the payments due to Nem s.r.l., as well as payment of any other supplies.

7. WARRANTY

7.1 In case of any defects, lack of quality or non-conformity of the supplied Products, Nem s.r.l., at its exclusive choice, engages itself to replace or repair the defective Products provided such defects or non-conformity have been timely notified in writing to Nem s.r.l., in accordance to point nr. 6, by 18 months from the delivery of the Goods and no later.

7.2 Products repaired or replaces under warranty as above described are submitted to the same guarantee, for a period of 18 months from the date of repair or replacement.

7.3 Except in case of fraud or gross negligence, in case of defects, lack of quality or non-conformity, Nem s.r.l. undertakes only to repair or replace the defective Products, in accordance to what above described.

7.4 This guarantee (i.e. the obligation of repairing or replacing the Products) is in lieu of any other legal guarantee or liability of the Supplier, with the exclusion of any other guarantee or liability – whether contractual or non-contractual – in connection with the Products supplied (i.e. compensation for damages, loss of profit, recall campaigns, ...).

7.5 Nem s.r.l. is covered by appropriate policy of Product Legal Liability.

8. RETENTION OF TITLE

8.1 The Goods supplied by Nem s.r.l. remain property of Nem s.r.l. until the complete payment of the supply is received.

9. SECRECY BOND

9.1 Nem s.r.l. engages itself to treat as highly confidential all the technical or commercial information should learnt from the Customer, which are not already of public divulgence.