50 VB ANNIVERSARY

1967 - 2017

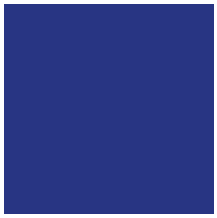
ITALY

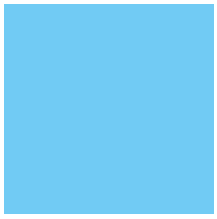
VB

MECHANICAL SECTIONS & TRAINING EQUIPMENT

MADE IN ITALY

14th Edition





Fluid Mechanics & Refrigeration

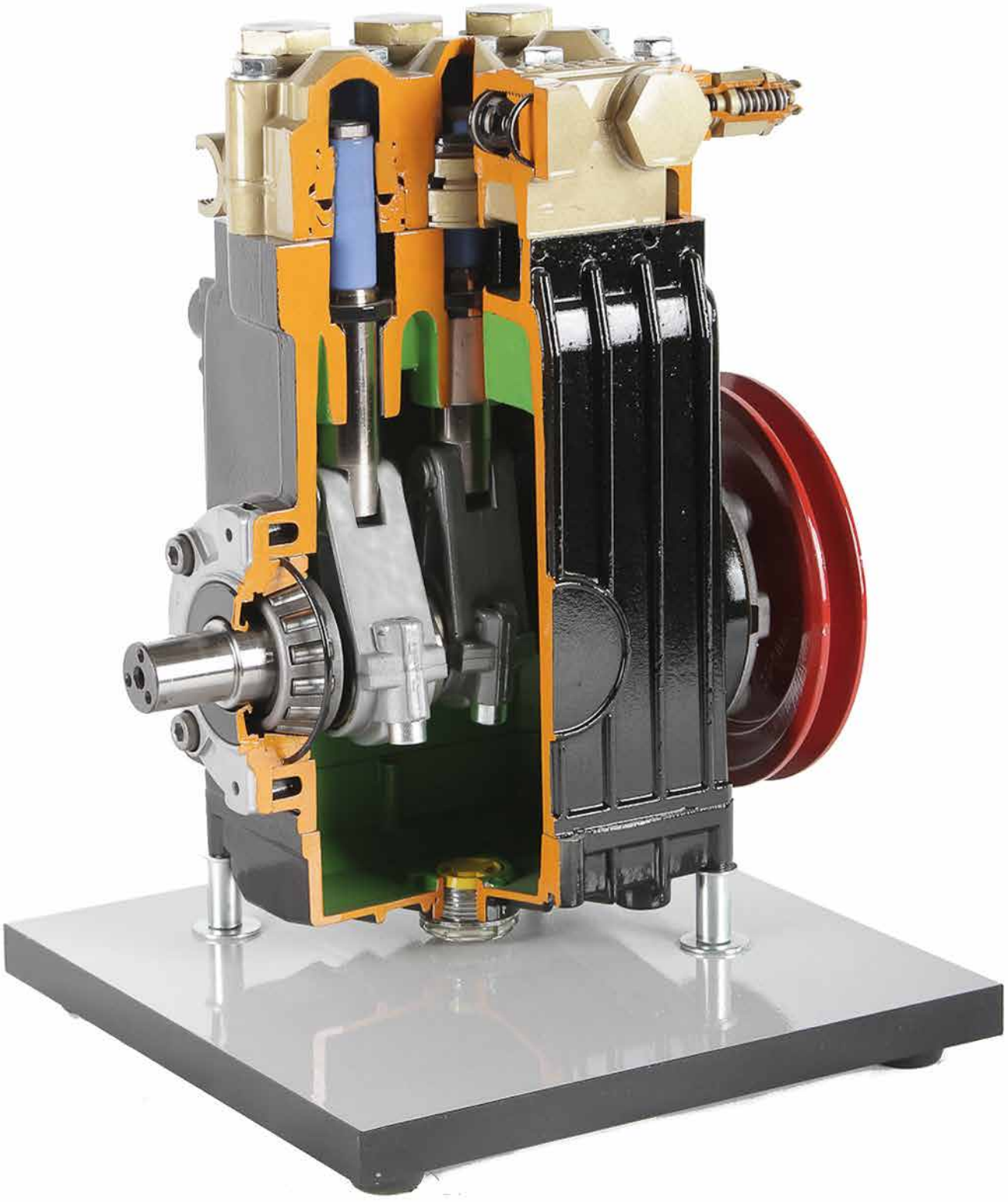
VB 12999M IN-LINE PISTON PUMP (on base) - manual

Accurate section of an in-line piston pump showing:

- Pump head
- Suction and discharge valves
- Pistons
- Piston rods
- Bearings

Approx. weight and dim.:

Cm:	*25x25x40h*
Net Weight:	*kg 11*
Gross Weight:	*kg 15*



Indicative picture for reference only

VB 13000S SERIES OF 5 WATER PUMP ROTORS (on base) - static

VB 13010M MANUAL DIAPHRAGM PUMP FOR LIQUID TRANSFER (on base) - manual

VB 13000S

VB 13010M

Indicative picture for reference only

VB 13020M SELF-PRIMING HIGH-LIFT CENTRIFUGAL ELECTRIC PUMP WITH BUILT-IN EJECTOR (on base) - manual

VB 13030M SELF-PRIMING CENTRIFUGAL ELECTRIC PUMP OPEN TYPE WHEEL FOR LIQUIDS CONTAINING SOLIDS - VALVE INCORPORATED IN THE SUCTION MOUTH (on base) - manual

VB 13040M CENTRIFUGAL ELECTRIC PUMP WITH PERIPHERAL CHANNELS (on base) - manual

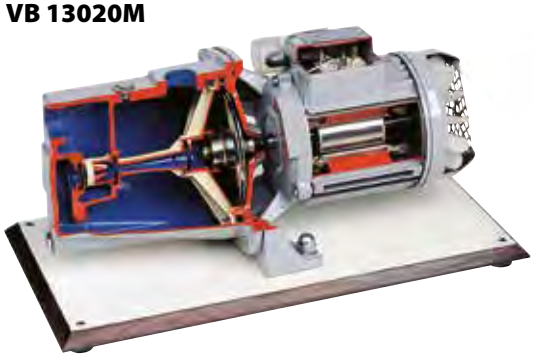
VB 13030M

Approx. weight and dim.:

Cm:	*35x30x25h*
Net Weight:	*kg 6*
Gross Weight:	*kg 9*

VB 13030M

VB 13020M



VB 13020M

Approx. weight and dim.:

Cm:	*40x30x30h*
Net Weight:	*kg 8*
Gross Weight:	*kg 13*

VB 13040M

VB 13040M

Approx. weight and dim.:

Cm:	*70x35x40h*
Net Weight:	*kg 26*
Gross Weight:	*kg 35*

VB 13050 - VB 13060

VB 13050M MULTI-STAGE CENTRIFUGAL ELECTROPUMP (on base) - manual

VB 13060M OPEN ROTOR CENTRIFUGAL ELECTRIC PUMP (on base) - manual

Approx. weight and dim.:

Cm:	*60x30x30h*
Net Weight:	*kg 16*
Gross Weight:	*kg 20*

VB 13050M

Approx. weight and dim.:

Cm:	*30x30x25h*
Net Weight:	*kg 6*
Gross Weight:	*kg 8*

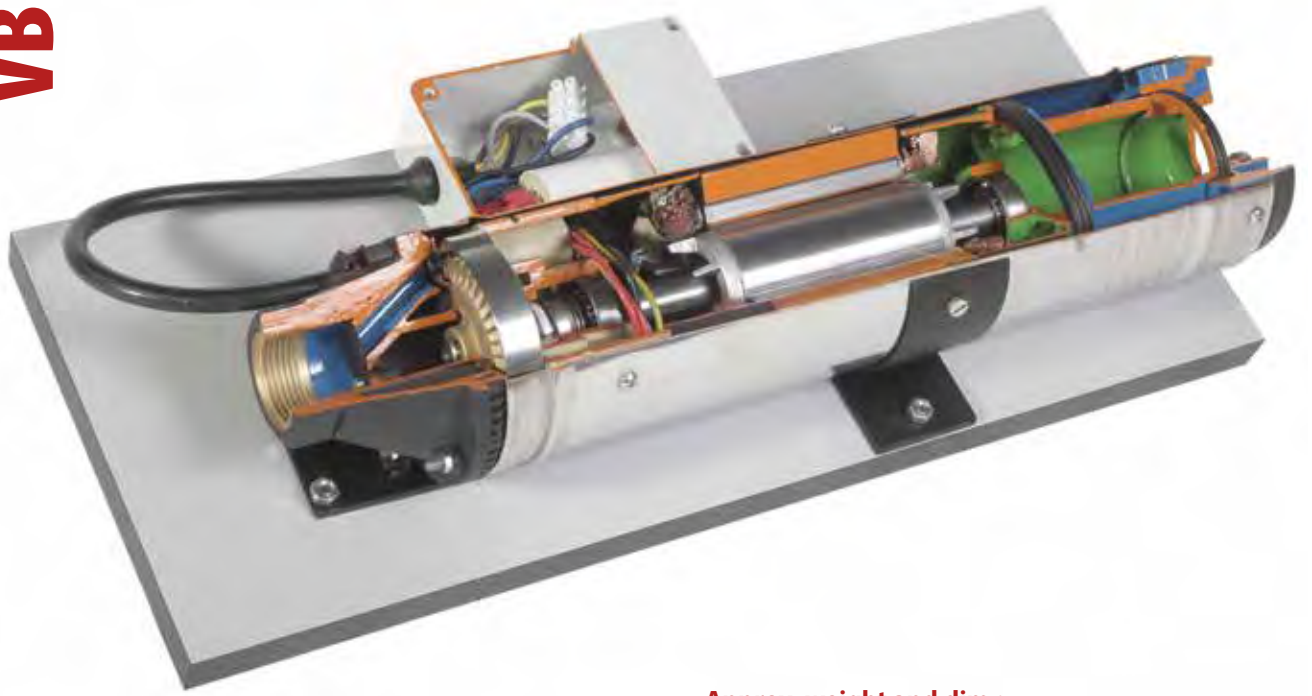
VB 13060M

The multi-stage electropump are able to develop a great pressure together with a great capacity of water with a little energy consumption. Due to the lack of noise and the good hydraulic characteristics, this type of pump is used for domestic systems, little drip irrigation or assembly of pressure systems.

Indicative picture for reference only

VB 13065

VB 13065S SUBMERSED ELECTROPUMP (on base) - static



Approx. weight and dim.:

Cm:	*50x20x15h*
Net Weight:	*kg 8*
Gross Weight:	*kg 15*

VB 13120S CUTAWAY HYDRAULIC/PNEUMATIC BALL VALVE (on base)

VB 13122S CUTAWAY STEAM GATE VALVE (on base)

Indicative picture for reference only

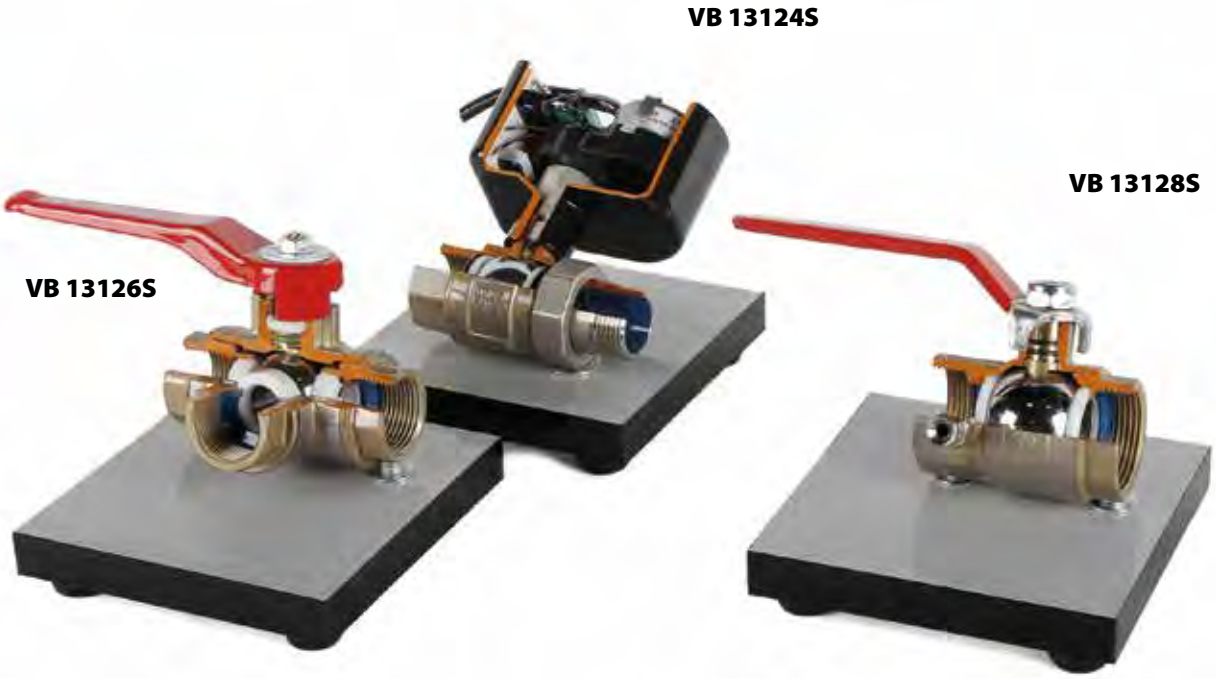
Approx. weight and dim.:

Cm:	*20x25x30h*
Weight:	*kg 5*

VB 13124S CUTAWAY TWO-WAY VALVE WITH ELECTRIC MOTOR (on base)

VB 13126S CUTAWAY THREE-WAY BALL VALVE (on base)

VB 13128S CUTAWAY BALL VALVE WITH DRAIN OFF/COCK (on base)



Approx. weight and dim.

Cm:	*15x20x15h*
Weight:	*Kg 2*

VB 13130 - VB 13132 - VB 13134 - VB 13136

VB 13130S CUTAWAY STANDARD BORE BALL VALVE (on base)

VB 13132S CUTAWAY STRAIGHT-WAY PLUG VALVE (on base)

VB 13134S CUTAWAY GATE VALVE (on base)

VB 13136S CUTAWAY COMPRESSION VALVE (on base)

Indicative picture for reference only

VB 13130S - VB 13132S - VB 13134S

Approx. weight and dim.:

Cm:	*15x15x15h*
Weight:	*kg 1*

VB 13136S

Approx. weight and dim.:

Cm:	*15x15x10h*
Weight:	*kg 1*

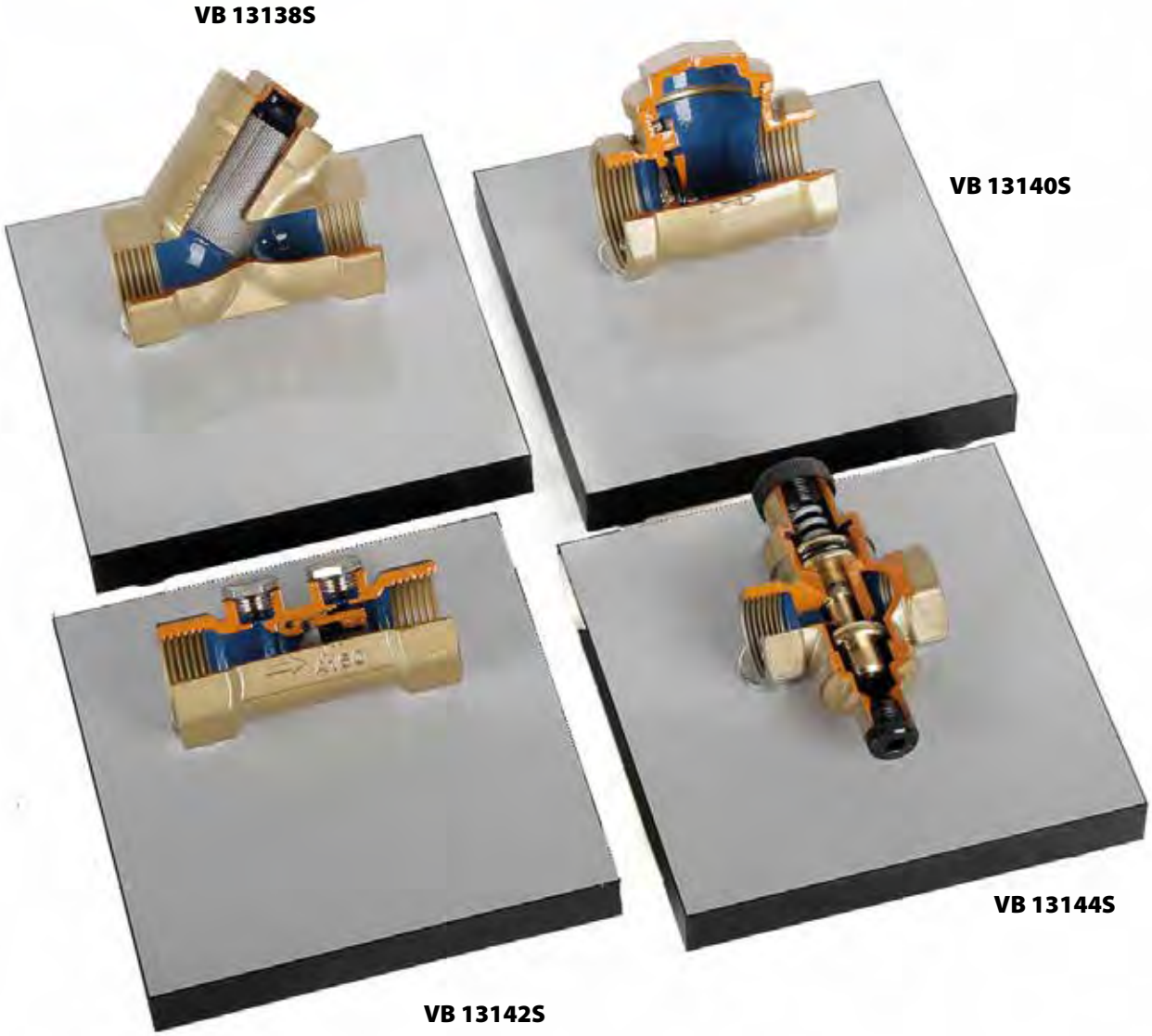
VB 13138S CUTAWAY LINE STRAINER VALVE (on base)

VB 13140S CUTAWAY STANDARD CLAPET FULL NON-RETURN VALVE (on base)

VB 13142S CUTAWAY CHECK VALVE WITH DRAIN (on base)

VB 13144S CUTAWAY PRESSURE VALVE REDUCER WITH FEMALE CONNECTION (on base)

Indicative picture for reference only



VB 13138S - VB 13140S - VB 13142S

Approx. weight and dim.:

Cm:	*15x15x10h*
Weight:	*kg 1*

VB 13144S

Approx. weight and dim.:

Cm:	*10x10x5h*
Weight:	*kg 1*

VB 13146 - VB 13148

VB 13146S CUTAWAY THROTTLE VALVE (on base)

VB 13148S CUTAWAY CIRCULATION PUMP (on base)

VB 13146S

Approx. weight and dim.:

Cm:	*25x20x20h*
Weight:	*kg 3*

VB 13148S

Approx. weight and dim.:

Cm:	*15x15x20h*
Weight:	*kg 2*

VB 13150 - VB 13152

VB 13150S CUTAWAY WATER METER (on base)

VB 13152S CUTAWAY FILTER (on base)

VB 13150S

Approx. weight and dim.:

Cm:	*20x20x20h*
Weight:	*Kg 2*

VB 13152S

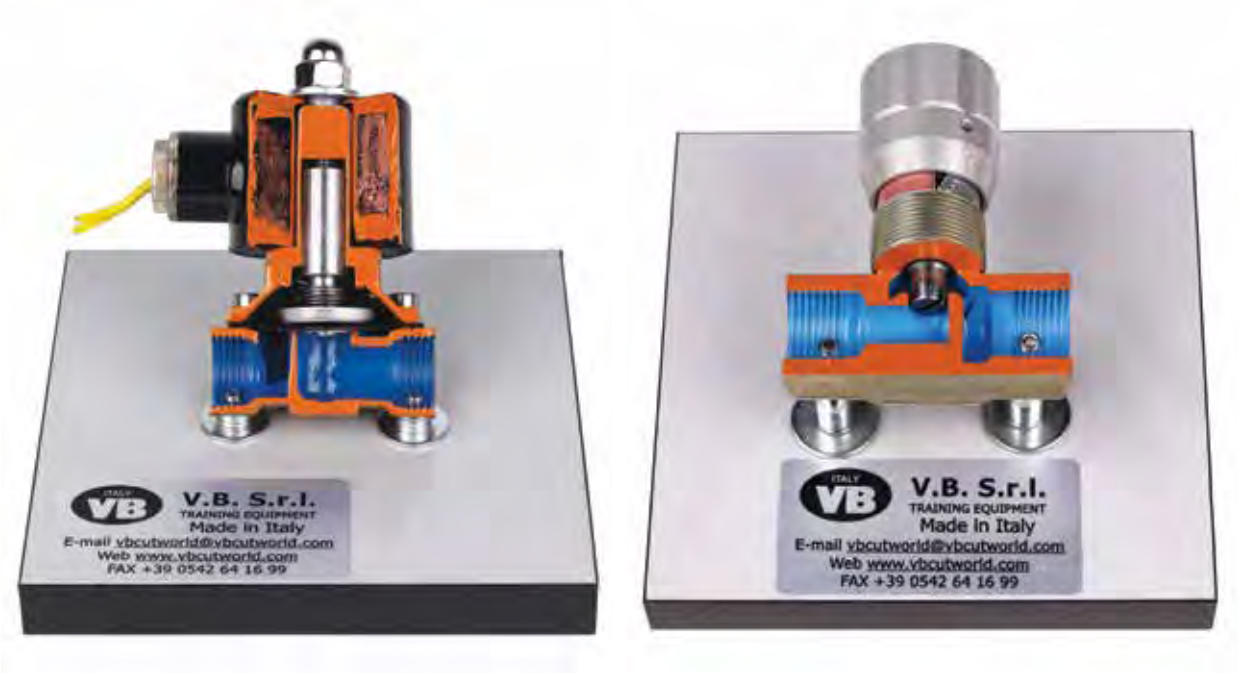
Approx. weight and dim.:

Cm:	*20x20x25h*
Weight:	*Kg 2,5*

Indicative picture for reference only

VB 13160S CUTAWAY SOLENOID MEMBRANE ELECTRO VALVE (on base)

VB 13161S CUTAWAY NEEDLE TWIN DIRECTIONAL FLOW VALVE (on base)



Indicative picture for reference only

VB 13160S

Approx. weight and dim.:

Cm:	*20x20x20h*
Net Weight:	*kg 1*
Gross Weight:	*kg 2*

VB 13161S

Approx. weight and dim.:

Cm:	*20x20x15h*
Net Weight:	*kg 1*
Gross Weight:	*kg 2*

VB 13162S CUTAWAY SAFETY VALVE (on base) - static

VB 13163S CUTAWAY BALANCING VALVE (on base) - static

VB 13162S

Approx. weight and dim.:

Cm:	*20x20x10h*
Net Weight:	*kg 0,5*
Gross Weight:	*kg 1*

VB 13163S

Approx. weight and dim.:

Cm:	*25x25x20h*
Net Weight:	*kg 1*
Gross Weight:	*kg 1,5*

VB 13164 - VB 13165

VB 13164S CUTAWAY MEMBRANE VALVE (on base)

VB 13165S CUTAWAY MANIFOLD VALVE (on base)

VB 13164S

Approx. weight and dim.:

Cm:	*25x25x20h*
Net Weight:	*kg 3*
Gross Weight:	*kg 4*

VB 13165S

Approx. weight and dim.:

Cm:	*25x25x15h*
Net Weight:	*kg 1*
Gross Weight:	*kg 2*

VB 13166 - VB 13167

VB 13166S CUTAWAY FLOOR MANIFOLD BRASS WITH MANUALLY VALVES WITH OPTION FOR THERMAL ACTUATOR (on base) – static

VB 13167S CUTAWAY FLOOR MANIFOLD BRASS WITH MANUALLY VALVES WITH BALANCING FLOW METERS FOR CIRCUIT CALIBRATION (on base) – static

VB 13166S

Approx. weight and dim.:

Cm:	*25x25x10h*
Net Weight:	*kg 1*
Gross Weight:	*kg 2*

VB 13167S

Approx. weight and dim.:

Cm:	*25x25x10h*
Net Weight:	*kg 1*
Gross Weight:	*kg 2*

Indicative picture for reference only

VB 13168S CUTAWAY PRESSOSTATIC VALVE (on base)

VB 13169S CUTAWAY BALL VALVE TO INTERCEPT FLUIDS FREE FROM SOLID AND FILAMENTOUS SUSPENSION WITH PNEUMATIC (on base)

VB 13168S

Approx. weight and dim.:

Cm:	*25x30x15h*
Net Weight:	*kg 2*
Gross Weight:	*kg 2,5*

VB 13169S

Approx. weight and dim.:

Cm:	*25x30x20h*
Net Weight:	*kg 2*
Gross Weight:	*kg 3*

Indicative picture for reference only

VB 13170S CUTAWAY THERMOSTATIC VALVE (on base) – static

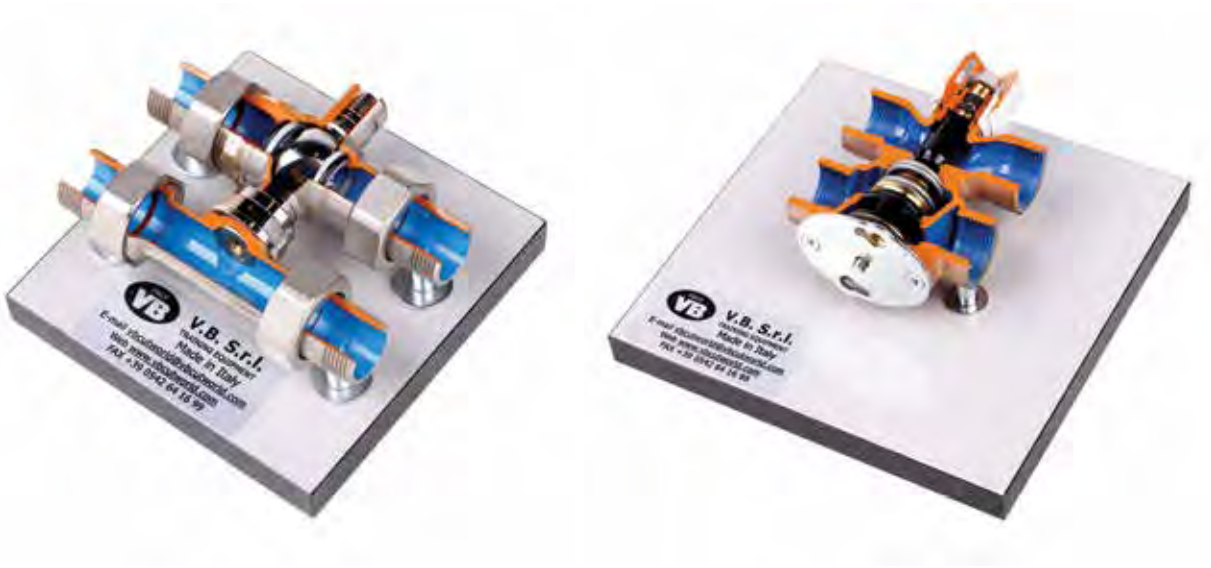
Approx. weight and dim.:

Cm:	*25x30x15h*
Net Weight:	*kg 2,5*
Gross Weight:	*kg 3,5*

VB 13171 - VB 13172

VB 13171S CUTAWAY ZONE VALVE 3 WAYS - 4 CONNECTIONS (on base)

VB 13172S CUTAWAY ZONE VALVE 4 WAYS - 4 CONNECTIONS (on base)



Approx. weight and dim.:

Cm:	*25x25x10h*
Net Weight:	*kg 1,5*
Gross Weight:	*kg 2*

Indicative picture for reference only

VB 13173

VB 13170S CUTAWAY SET OF 5 DIFFERENT TYPES OF JOINTS (on base) – static

Approx. weight and dim.:

Cm:	*40x25x10h*
Net Weight:	*kg 3*
Gross Weight:	*kg 5*

VB 13154S CUTAWAY BRASS FOOT TUBULAR VALVE (on base)

VB 13156S CUTAWAY YACHT CHECK VALVE WITH STAINLESS STEEL FILTER (on base)

Indicative picture for reference only

VB 13154S

Approx. weight and dim.:

Cm:	*15x15x15h*
Weight:	*kg 1*

VB 13156S

Approx. weight and dim.:

Cm:	*15x15x20h*
Weight:	*kg 1*

VB 13158S CUTAWAY SELF-CLEANING FILTER + PRESSURE GAUGE (on base)

Approx. weight and dim.:

Cm:	*20x30x10h*
Weight:	*Kg 2*

VB 13076

VB 13076M SELF PRIMING MOTORPUMP (on base) - manual

Main technical specifications:

- *Model type 2 stroke engine*
- *Displacement: 25 cu. cm*
- *Specifications pump*
- *Suction 1"*
- *Delivery 1"*
- *Max suction head mt.6*

Approx. weight and dim.:

Cm:	*30x30x40h*
Net Weight:	*kg 6*
Gross Weight:	*kg 10*

VB 13078

VB 13078M CENTRIFUGAL MOTORPUMP (on table support) - manual

Main technical specifications:

- *Model type 2 stroke engine*
- *Displacement: 46 cu. cm*
- *Specifications pump*
- *Suction 1"*
- *Delivery 1"*
- *Max suction head mt.8*

Approx. weight and dim.:

Cm:	*40x30x40h*
Net Weight:	*kg 10*
Gross Weight:	*kg 15*

These cutaway models are carefully sectioned for training purposes, professionally painted with different colours to better differentiate the various parts, cross-sections, lubricating circuits, fuel system, cooling system etc. Many parts have been chromium, plated and galvanized for a longer life.

Indicative picture for reference only

VB 9180M FRANCIS TURBINE (on base) - manual

Sectioned model of "Francis " Turbine.
Operated manually.

Approx. weight and dim.:

Cm:	*25x40x40h*
Net Weight:	*kg 7*
Gross Weight:	*kg 10*

Indicative picture for reference only

VB 9190M PELTON TURBINE (on base) - manual

Sectioned model of "Pelton" turbine.
Operated manually.

Approx. weight and dim.:

Cm:	*40x30x20h*
Net Weight:	*kg 6*
Gross Weight:	*kg 10*

VB 13071 - VB 13074

VB 13071M RECIPROCATING COMPRESSOR (on base) - manual

VB 13071M

Approx. weight and dim.:

Cm:	*40x40x60h*
Net Weight:	*kg 30*
Gross Weight:	*kg 40*

VB 13074M AIR COMPRESSOR (on base) - manual

Section of a typical alternative compressor used in braking systems.

VB 13074M

Approx. weight and dim.:

Cm:	*20x20x30h*
Net Weight:	*kg 6*
Gross Weight:	*kg 10*

Indicative picture for reference only

VB 13072

VB 13072 CUTAWAY AIR COMPRESSOR 2HP

An air compressor is a device that converts power (using an electric motor, diesel or gasoline engine, etc.) into potential energy stored in pressurized air. By one of several methods, an air compressor forces more and more air into a storage tank, increasing the pressure. When tank pressure reaches its upper limit the air compressor shuts off. The compressed air, then, is held in the tank until called into use. The energy contained in the compressed air can be used for a variety of applications, utilizing the kinetic energy of the air as it is released and the tank depressurizes. When tank pressure reaches its lower limit, the air compressor turns on again and re-pressurizes the tank.

Main technical specifications:

- *7.8 CFM direct air rating*
- *Compact 24 litres tank*
- *Reducer with pressure gauge*
- *Motor: 2HP 1500 Watt*
- *Max pressure: 116 PSI/ 8 bar*
- *Free air delivery: 222 l/min*
- *Lubricated*
- *RPM: 2850*
- *Voltage: 240V*

Approx. weight and dim.:

Cm:	*30x60x60h*
Net Weight:	*kg 25*
Gross Weight:	*kg 35*

VB 13075M SCREW COMPRESSOR (on base) - manual

VB 13075

Approx. weight and dim.:

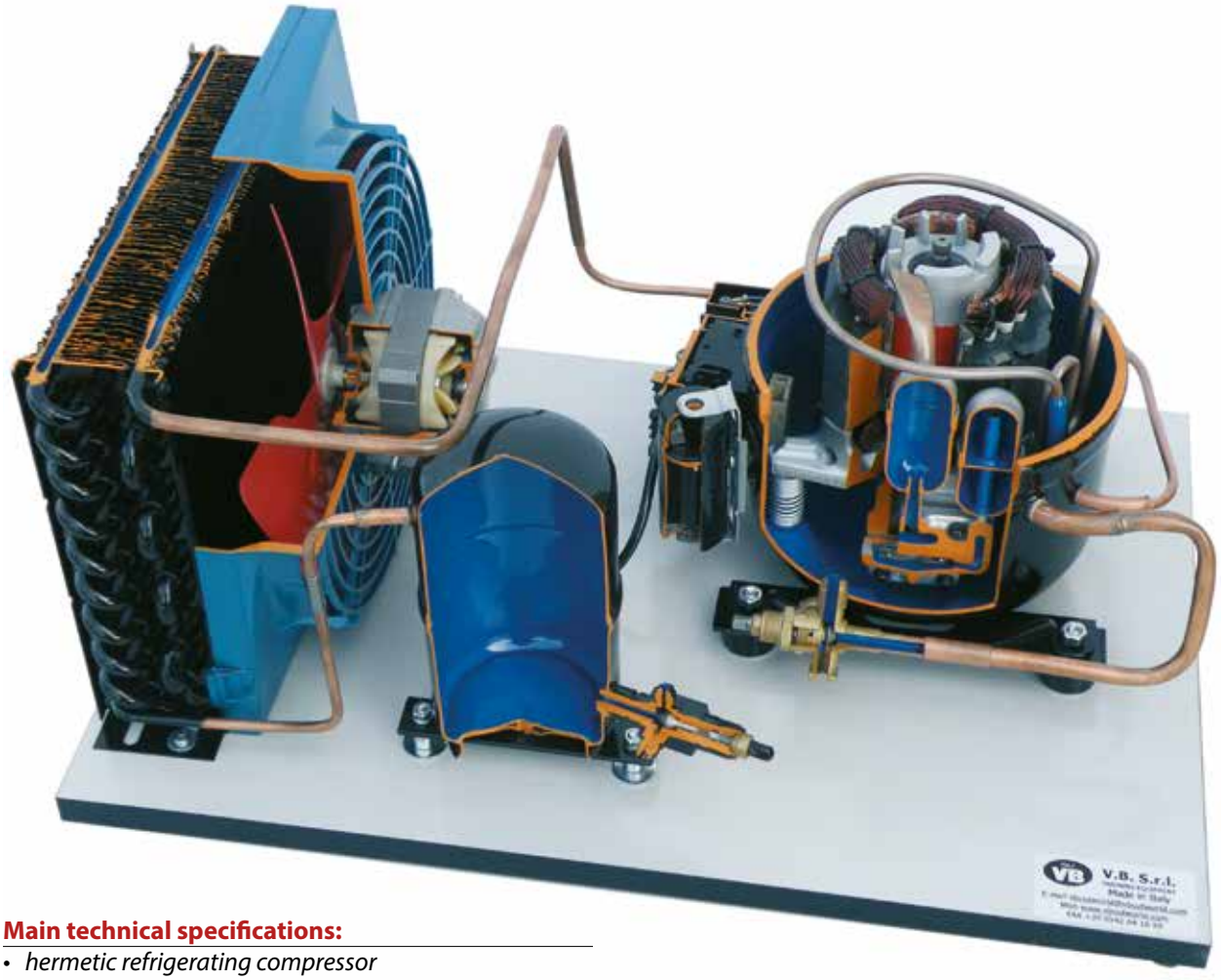
Cm:	*40x30x30h*
Net Weight:	*kg 25*
Gross Weight:	*kg 35*

These cutaway models are carefully sectioned for training purposes, professionally painted with different colours to better differentiate the various parts. Many parts have been chromium, plated and galvanized for a longer life.

VB 13080S HERMETIC CONDENSING UNIT (on base) - static

VB 13080

Indicative picture for reference only



Main technical specifications:

- *hermetic refrigerating compressor*
- *air condenser*
- *liquid receiver*
- *interception tap*
- *electro-fan + radiator*

Approx. weight and dim.:

Cm:	*70x50x45h*
Net Weight:	*kg 20*
Gross Weight:	*kg 35*

VB 13082

VB 13082M HERMETIC COMPRESSOR (on base) - manual

Approx. weight and dim.:

Cm:	*25x30x30h*
Net Weight:	*kg 9*
Gross Weight:	*kg 15*

VB 13083

VB 13083M OPEN COMPRESSOR (on base) - manual

Approx. weight and dim.:

Cm:	*25x30x25h*
Net Weight:	*kg 8*
Gross Weight:	*kg 15*

Indicative picture for reference only

VB 13084S ROTATIVE COMPRESSOR (on base) - static

VB 13084

Approx. weight and dim.:

Cm:	*25x30x40h*
Net Weight:	*kg 9*
Gross Weight:	*kg 15*

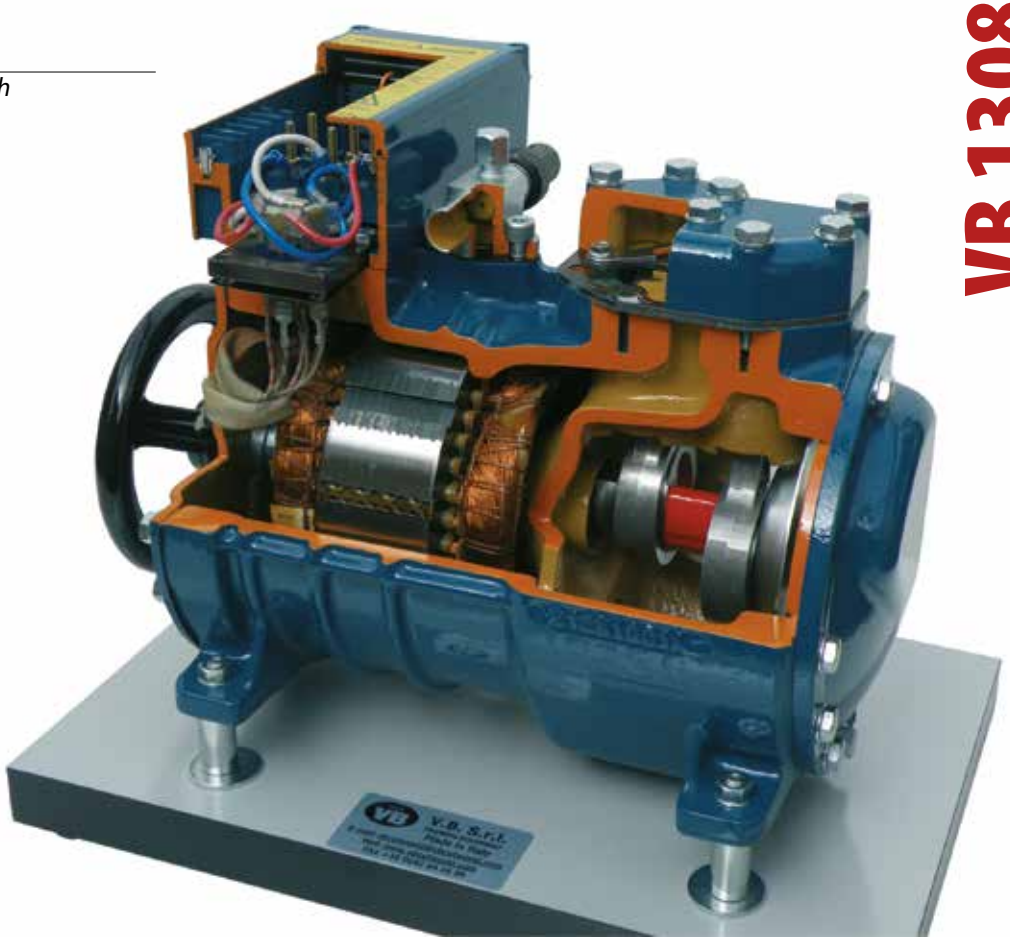
Indicative picture for reference only

VB 13085M SEMI-HERMETIC COMPRESSOR (on base) - manual

VB 13085

Approx. weight and dim.:

Cm:	*30x50x40h*
Net Weight:	*kg 30*
Gross Weight:	*kg 40*



VB 13174 - VB 13175

VB 13174S CUTAWAY EVAPORATOR PRESSURE REGULATOR KVP (on base)

VB 13175S CUTAWAY CONDENSING PRESSURE REGULATOR KVR (on base)

Approx. weight and dim.:

Cm:	*16x25x10h*
Net Weight:	*kg 0,5*
Gross Weight:	*kg 1*

VB 13176

VB 13176S CUTAWAY THERMAL EXPANSION VALVE (on base) – static

Approx. weight and dim.:

Cm:	*15x20x10h*
Net Weight:	*kg 0,5*
Gross Weight:	*kg 1*

Indicative picture for reference only

VB 13177S CUTAWAY ELECTRIC GENERATOR (on table-stand support)

Indicative picture for reference only

Approx. weight and dim.:

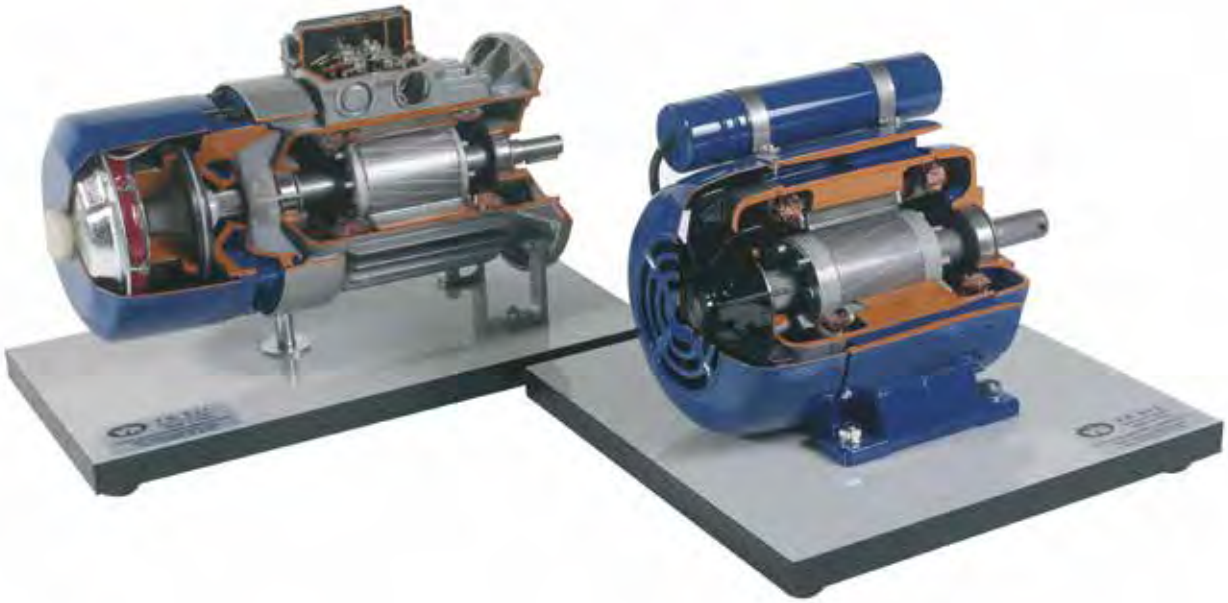
Cm:	*60x50x50h*
Net Weight:	*kg 25*
Gross Weight:	*kg 35*

In electricity generation, a generator is a device that converts mechanical energy to electrical energy for use in an external circuit. The source of mechanical energy may vary widely from a hand crank to an internal combustion engine. Generators provide nearly all of the power for electric power grids.

VB 13088M THREE-PHASE SELF-BRAKING ELECTRIC MOTOR (on base) - manual

VB 13089M SINGLE-PHASE ELECTRIC MOTOR (on base) - manual

VB 13090M THREE-PHASE ELECTRIC MOTOR (on base) - manual



Indicative picture for reference only

VB 13088M

Approx. weight and dim.:

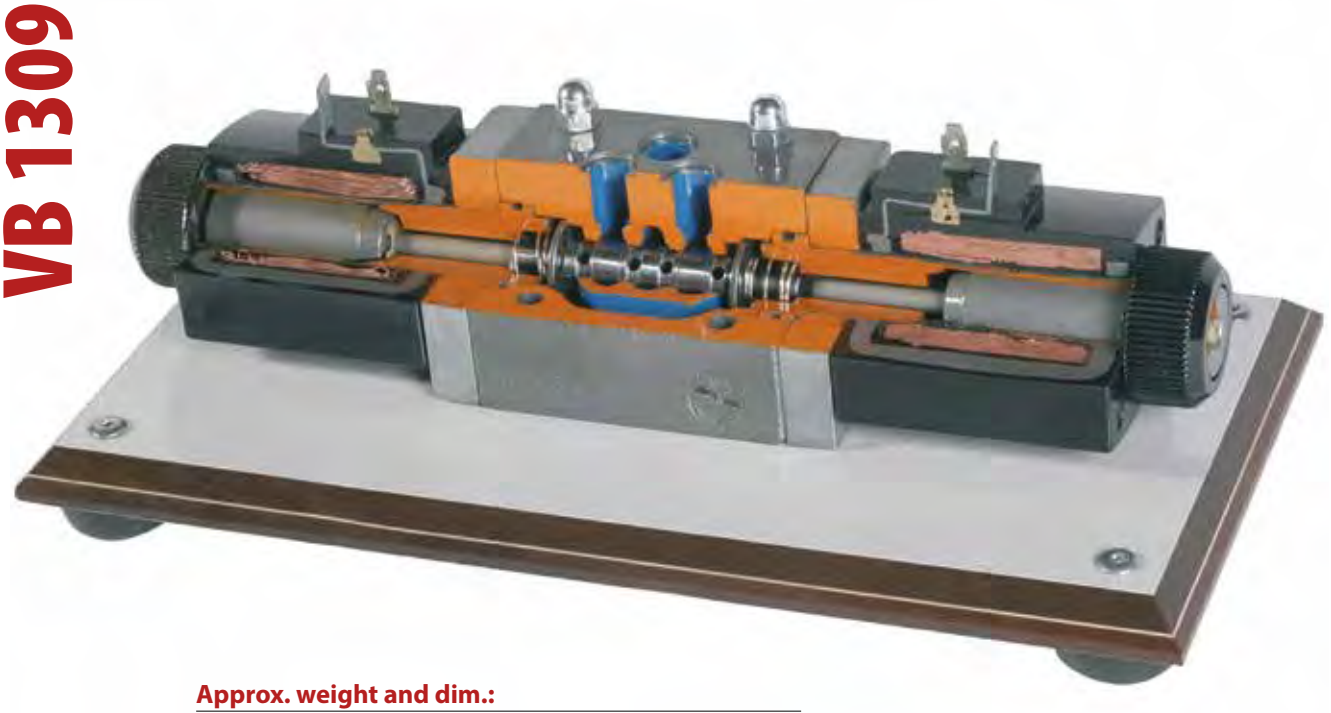
Cm:	*38x20x25h*
Net Weight:	*kg 10*
Gross Weight:	*kg 16*

VB 13089M - VB13090M

Approx. weight and dim.:

Cm:	*30x30x25h*
Net Weight:	*kg 9*
Gross Weight:	*kg 15*

VB 13091S ELECTROVALVE (on base) - static



Approx. weight and dim.:

Cm:	*25x15x10h*
Net Weight:	*kg 2*
Gross Weight:	*kg 4*

VB 13092M ANGLE REDUCER (on base) - manual

VB 13093M RIGHT ANGLE REDUCER (on base) - manual

VB 13094M WORM GEAR REDUCER (on base) - manual

VB 13095M WORM GEAR REDUCER WITH PRE-STAGE GEAR (on base) - manual

Indicative picture for reference only

VB 13092M

Approx. weight and dim.:

Cm:	*20x20x16h*
Net Weight:	*kg 5*
Gross Weight:	*kg 7*

VB 13093M

Approx. weight and dim.:

Cm:	*20x20x15h*
Net Weight:	*kg 2*
Gross Weight:	*kg 3*

VB 13094M

Approx. weight and dim.:

Cm:	*20x20x20h*
Net Weight:	*kg 5*
Gross Weight:	*kg 7*

VB 13095M

Approx. weight and dim.:

Cm:	*20x20x20h*
Net Weight:	*kg 4*
Gross Weight:	*kg 6*

VB 13096M SINGLE-STAGE REDUCER (on base) - manual

VB 13097M REDUCER WITH SPEED CONVERTER (on base) - manual

VB 13098M CO-AXIAL REDUCER (on base) - manual

VB 13096M

Approx. weight and dim.:

Cm:	*30x30x30h*
Net Weight:	*kg 9*
Gross Weight:	*kg 15*

VB 13097M

Approx. weight and dim.:

Cm:	*24x20x20h*
Net Weight:	*kg 5*
Gross Weight:	*kg 7*

VB 13098M

Approx. weight and dim.:

Cm:	*30x30x25h*
Net Weight:	*kg 15*
Gross Weight:	*kg 21*

VB 13099M EPYCICLOYD COAXIAL REDUCER (on base) - manual

VB 13100M COMBINED WORM GEAR REDUCER (on base) - manual

VB 13099M

Approx. weight and dim.:

Cm:	*38x20x16h*
Net Weight:	*kg 8*
Gross Weight:	*kg 14*

VB 13100M

Approx. weight and dim.:

Cm:	*38x20x16h*
Net Weight:	*kg 7*
Gross Weight:	*kg 12*

VB 13101M HYDRAULIC GEAR ENGINE (on base) - manual

VB 13102M ORBITAL HYDRAULIC MOTOR (on base) - manual

VB 13103M VARIABLE CAPACITY HYDRAULIC PUMP (on base) - manual

VB 13101M

Approx. weight and dim.:

Cm:	*20x20x14h*
Net Weight:	*kg 3*
Gross Weight:	*kg 4*

VB 13102M

Approx. weight and dim.:

Cm:	*20x20x25h*
Net Weight:	*kg 8*
Gross Weight:	*kg 14*

VB 13103M

Approx. weight and dim.:

Cm:	*20x20x28h*
Net Weight:	*kg 7*
Gross Weight:	*kg 12*

Indicative picture for reference only

VB 13110M BEVEL HELICAL REDUCER (on base) - manual

Approx. weight and dim.:

Cm:	*25x20x20h*
Net Weight:	*kg 5*
Gross Weight:	*kg 8*

Indicative picture for reference only

VB 13111S KOYO BALL BEARING (on base) - static

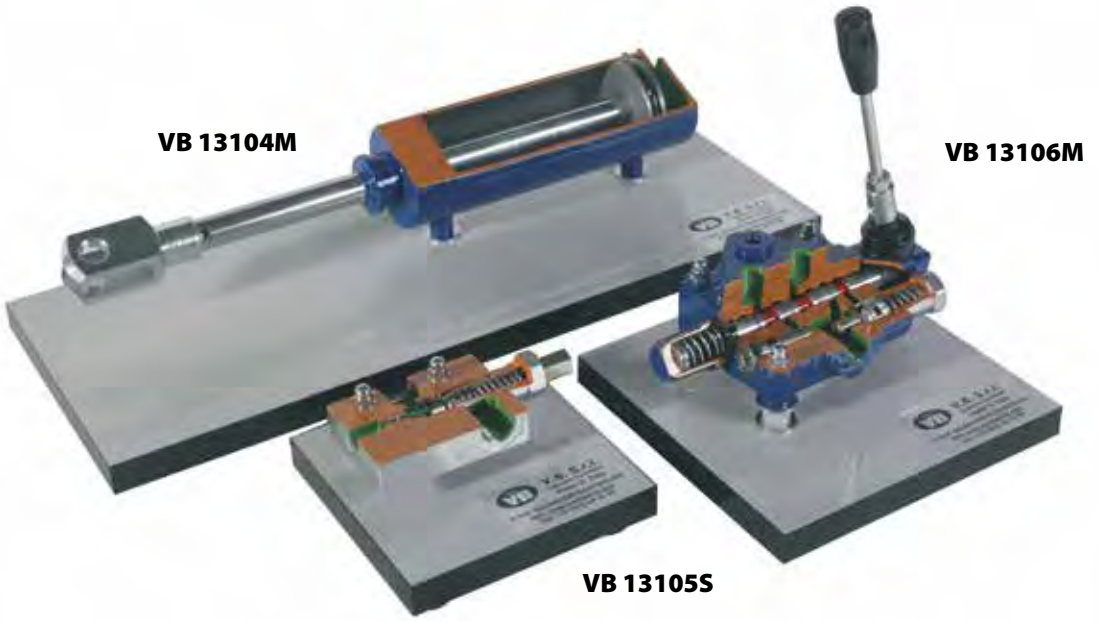
Approx. weight and dim.:

Cm:	*25x20x20h*
Net Weight:	*kg 4*
Gross Weight:	*kg 6*

VB 13104M SIMPLE EFFECT PISTON (on base) - manual

VB 13105S PRESSURE REGULATOR VALVE (on base) - static

VB 13106M SIMPLE EFFECT DISTRIBUTOR WITH PRESSURE VALVE (on base) - manual



VB 13104M
Approx. weight and dim.:

Cm:	*50x20x14h*
Net Weight:	*kg 3*
Gross Weight:	*kg 4*

VB 13105S
Approx. weight and dim.:

Cm:	*15x15x10h*
Net Weight:	*kg 1*
Gross Weight:	*kg 1,5*

VB 13106M
Approx. weight and dim.:

Cm:	*20x20x28h*
Net Weight:	*kg 1*
Gross Weight:	*kg 1,5*

Indicative picture for reference only

VB 13107M DOUBLE EFFECT HYDRAULIC CYLINDER (on base) - manual

VB 13108S TELESCOPIC HYDRAULIC CYLINDER with hydraulic jack (on base) - static

VB 13109M SIMPLE EFFECT HYDRAULIC CYLINDER (on base) - manual

VB 13107M
Approx. weight and dim.:

Cm:	*12x40x15h*
Net Weight:	*kg 3*
Gross Weight:	*kg 6*

VB 13108S
Approx. weight and dim.:

Cm:	*40x20x15h*
Net Weight:	*kg 5*
Gross Weight:	*kg 9*

VB 13109M
Approx. weight and dim.:

Cm:	*12x40x15h*
Net Weight:	*kg 4*
Gross Weight:	*kg 7*

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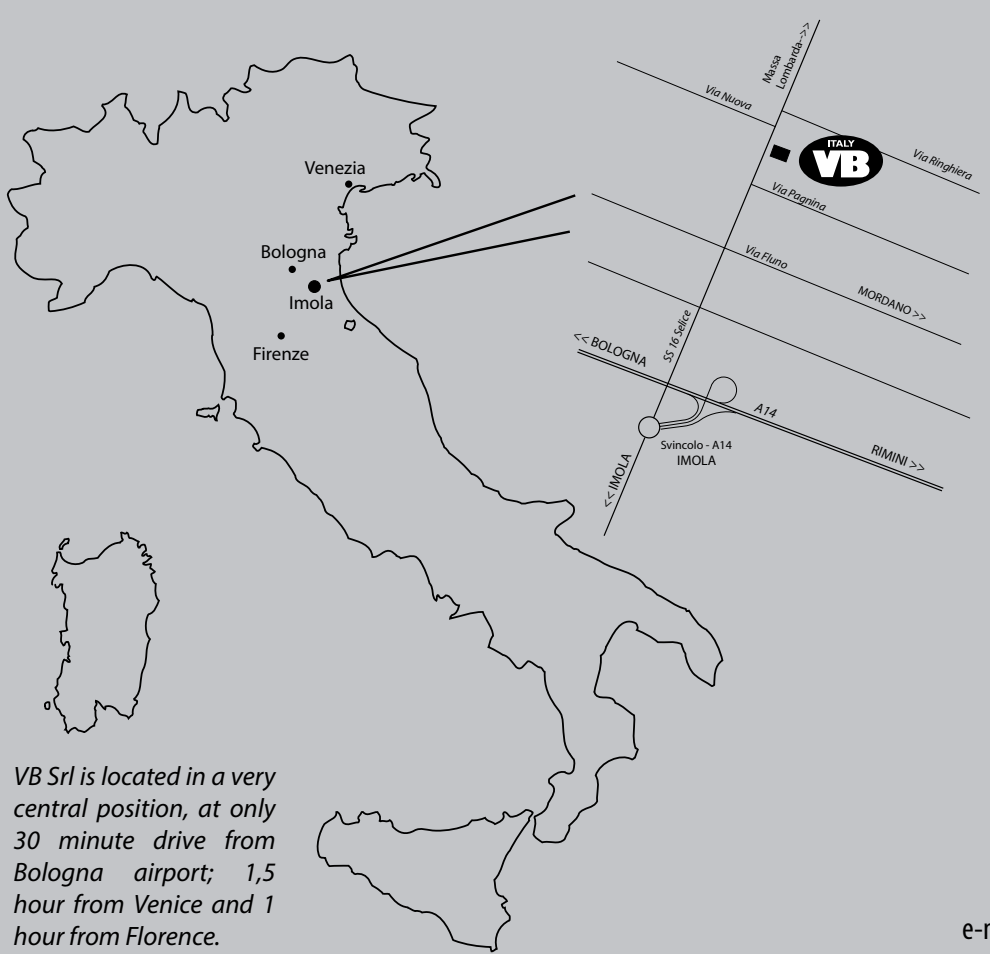
ANNIVERSARY
1967 - 2017



VB Srl is located in a very central position, at only 30 minute drive from Bologna airport; 1,5 hour from Venice and 1 hour from Florence.

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14th Edition