



VŠE PRO RTG
VMIK
ALL FOR X-RAY



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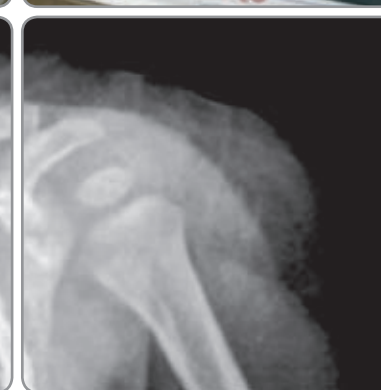
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PROTECTS YOUR HEALTH

PROVED AND EFFECTIVE RADIOLOGICAL PROTECTIVE APPARELS FOR MEDICAL PERSONNEL





RADPROM PRODUCTS

All protective clothing and other RADPROM products are intended for health protection of doctors, medical staff and their patients against radiation effects in radiography departments. V.M.K. Company with RADPROM trade mark is one of the most notable producers in radiography field since year 1993.

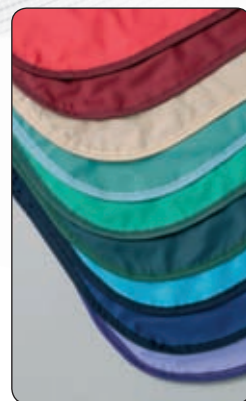
In this catalogue we present the products for protection against radiation effects:

Protective apparels, garments for medical stuff and specialized radiography departments with higher risk of radiation burden:

- Lead aprons and collars (thyroid shield)
- Vests, skirts or coats
- Mittens (open palms and Thumbs) protecting hands and forearm
- Lead glasses
- Shields and drapes (for shielding and complete protection of the working space, designed according to special customer requirements)
- Flint glass

Protective apparels for the patients:

- Half aprons
- Covers and screens



MATERIALS, COLOURS, SIZES, LEAD EQUIVALENTS

Protective apparels are made of light, multilayer shielding material. Thanks to this quality the RADPROM products are lightweight, highly flexible and comfortable for users. The application of the apparels is extremely easy to use, adjusted to fast dressing and flexi movement requirements. Clothing including collars are tightened with a ribbon closure (Velcro fastener), for which is not necessary to have big power or skills and allows maximum comfort.

Apparels are equipped generally with padded shoulders and supportive belts (fastened with a belt with quick release buckle) to distribute weight and also with little breast pocket for personal dosimeter. Apparels are constructed in contemporary designs resulting in reducing operator fatigue over long hours of continuous use, with lateral openings for freedom of movement. Protective clothing is offered in several colour variants and in different sizes. Surface material and colour sampler are certainly provided. When not in use, aprons should be hung, not folded, for which we also offer special hangers.

For all styles and types of protective apparels is possible to choose surface material according to the option of the future user:

- Pleasuring feel of polyester fabric with a special modification for easy cleaning. It is offered in this colour spectrum: red, light violet, light blue, dark green, forest green, navy blue, ruby, beige, crispy green.
- Directly washable Vinytol material, with colour variants in green-blue, petrol blue.

It is also possible to choose a shielding material, which is double strapped by surface material:

- Vinyl with lead amount.
- Ecologically more thrifty leadless vinyl.



- surface material - polyester fabric or Vinytol material
- multilayer shielding material
- polyester fabric

Shielding equivalents can be random. Generally, they abide by the requirements of national rules for protection against radiation. In agreement with these rules they are made with the equivalent 0.25 mm, 0.35 mm or 0.50 mm of lead level.

Diverse protective shields and drapes are produced of the same materials and colour variants as the protective apparels, also with random shielding equivalent.

In the table you can see radiation amount let through in dependence on shielding equivalent and kVp:

| | 0,25 mm | 0,35 mm | 0,50 mm |
|---------|---------|---------|---------|
| 50 kVp | 0,51 % | 0,12 % | 0,02 % |
| 70 kVp | 4,10 % | 2,20 % | 0,82 % |
| 100 kVp | 11,4 % | 6,60 % | 3,90 % |
| 120 kVp | 14,2 % | 8,80 % | 5,20 % |
| 140 kVp | 17,2 % | 11,0 % | 6,60 % |

All RADPROM products are certified with the CE₁₀₂₄ mark.

STANDARD STYLE APRONS

Protecting Standard style apron is very popular for its easy and fast wrap fastening with ribbon (Velcro) closure. Apron has two Velcro wide straps which aid in relieving weight off the shoulders. Its comfortable fit is attained by varying the position of the straps, which goes over the shoulders to the back part of the body, where are crossed at the bottom part, covering the whole back, continuing down the back over waist ending with ribbon (Velcro) closures at the front part of the body. Comfort of the user is guaranteed by shoulder-padding. Apron does not miss breast pocket for personal dosimeter.

Two variants are being differentiated and produced:

- For the front body part protection is being produced one side shielded apron with optional shielding equivalents: 0.25 and 0.35 or 0.50 mm Pb.
- For both (front and back body part) protection is being produced both-sides shielded apron. The optional back part protection is shielding one unique equivalent: 0.25 mm Pb.

Aprons are supplied in standard width of 60 cm and lengths 90, 100, 110, 120 or 130 cm. Based on the special customer requirements it is possible to tailor non-standard proportions.

Optimal apron length is selected according to corresponding user height. See the table:

| Height | Recommended length | Height | Recommended length |
|--------------|--------------------|--------------|--------------------|
| 145 – 155 cm | 90 cm | 175 – 185 cm | 120 cm |
| 155 – 165 cm | 100 cm | 185 – 195 cm | 130 cm |
| 165 – 175 cm | 110 cm | | |



SURGEON STYLE APRONS



This style is designed to be worn during operating room procedures under the sterile gown. The special wrap around straps can be easily released allowing the apron to fall free without removing or disturbing the sterile gown. This apron style has weight supportive design, fastening apron from the front body part by two straps, going over the shoulders to the back part of the body, where are crossed at the upper back part and continuing down the back and ending with ribbon (Velcro) closures at the waist – partly in the front. Comfort of the user is guaranteed by shoulder-padding. Apron does not miss breast pocket for personal dosimeter. The front side of the surgeon style apron has optional shielding equivalents: 0.25 and 0.35 or 0.50 mm Pb.

This apron style is being produced in one standard width of 60 cm and lengths 90, 100, 110, 120 or 130 cm. Based on the special customer requirements according to special assignments it is possible to tailor non-standard proportions.

COATS

Wrap around coat is used for maximal front and back protection from scattered radiation effect from simultaneously several directions. Coat product is especially intended to surgeries and operating rooms when exacting special interventional procedure examinations are done.

Coat is fastened with three horizontal ribbon (Velcro) closures on the front part and with use of adjustable height back support waist belt and special ties with the buckle placed on the right side by the shoulder height. The shoulder-padding and guarantees considerable improvement of the wearing comfort, the normal pressure on shoulders is decreased remarkably. Weight is also partly distributed between waist and shoulders thanks to the belt. Coat does not miss the lateral openings for freedom of movement, neither the little breast pocket for personal dosimeter.

Coats are being produced with shielding equivalents (coat's front/back side): 0.25 or 0.35 mm Pb. The coat is conveniently styled and overlaps in front part for double lead equivalence in critical areas sterna and gonad 0.50 or 0.70 mm Pb.

Optional coat's lengths: 90, 100, 110 or 120 cm, recommended up to chest girth: smaller up to 100 cm, bigger over 100 cm.



VESTS AND SKIRTS



Two-piece wrap around protection, consisting of vest and skirt is an ideal selection for radiological procedures which require personal protection for extended periods. The weight is optimally divided between the shoulders and hips.

Both, vest and skirt are fast and effectively fixed. The vest has three horizontal ribbon (Velcro) closures in the front part. The skirt is equipped with wide double waist closing, with a ribbon (Velcro) closure and belt with quick release buckle.

Vests and skirts are produced with shielding equivalent for the front side: 0.25 or 0.35 mm Pb, and one equivalent for the back side: 0.25 mm Pb. The double set is conveniently styled and overlaps in front for double lead equivalence in critical areas sterna and gonad 0.50 or 0.70 mm Pb.



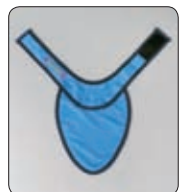
Vests and skirts are being manufactured in these sizes selected according to the following table:

| Vest | small | medium | large |
|----------------|------------|-------------|--------------|
| Shoulder girth | 35 cm | 40 cm | 44 cm |
| Hip girth | 75 – 90 cm | 90 – 105 cm | 105 – 120 cm |
| Vest's length | 46 cm | 50 cm | 52 cm |

| Skirt | small | medium | large |
|----------------|------------|------------|-------------|
| Girth | 45 – 65 cm | 65 – 85 cm | 85 – 105 cm |
| Skirt's length | 60 cm | 60 cm | 60 cm |

COLLARS

Collar is two piece set, covering up to the chain the thyroid shield. It is specially designed to protect the thyroid area and simultaneously matches conformability requirements. It is worn over the protection apron and has ribbon closure. Its Velcro closure makes it suitable to any neck size – one size fits all. Collar is being produced in three optional shielding equivalents: 0.25 and 0.35 or 0.50 mm Pb.



MITTENS

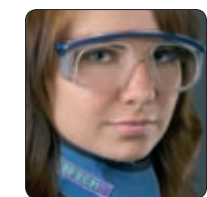
Mittens provide protection of the upper hand and forearm with open palm and Thumb, which allows comfortable manipulation during the medical examination. Mittens are intended for only working space with usage of roentgen lamp above medical examination table.

One piece is manufactured as one unique size with optional shielding equivalents: 0.50 or 1.0 mm Pb, with forearm fastening belt.



LEAD GLASSES

Lead glasses complete personal protection accessories and protect eyes from direct and scattered radiation. They can be held in place by a flexi adjustable headband. Fine optical-quality lenses. It is manufactured with shielding equivalent of front and side protection: 0.75 mm Pb.





SHIELDS AND DRAPES

For protecting surroundings of radiation sources, V.M.K. Company produces custom-made diverse types of shields and drapes according to individual customer needs. Drapes are possible to be made of one sheet piece or from several overlapped layers. Optional shielding equivalents are: 0.25 and 0.50 or 1.0 mm Pb.

Surface material is the same as for protection, offered in two possible material varieties and colour spectrum.

FLINT GLASS

Flint glass is convenient especially in radiography rooms as surroundings protection from the radiation sources. Flint glass is supplied in random sizes with optional shielding equivalent, without or with frame.

PROTECTIVE APPARELS FOR THE PATIENTS

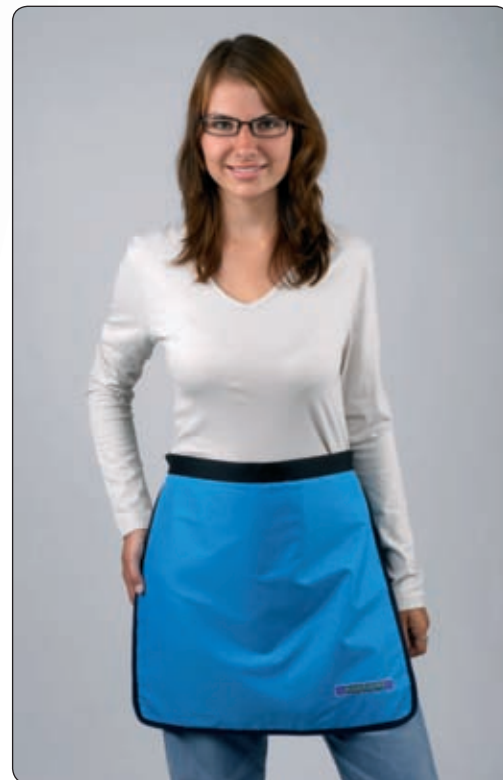
Patients' apparels and covers are being made of the same material options (shielding and surface materials) and colour varieties as the apparels for the medical stuff.

HALF APRONS

Half aprons are ideal for protection of general areas from the front or the back side during radiography and fluoroscopy of thorax and upper abdomen. They are also used for protecting patient from the scattered radiation during medical examination in the room. Half apron has waist fastening by simple buckle. Half aprons are produced with one shielding equivalent 0.50 mm Pb, in the following four sizes.

Sizes are for child and adults:

- 25 × 20 cm
- 30 × 30 cm
- 37 × 40 cm
- 40 × 45 cm



COVERS

For the patients in the horizontal situation are being produced protection covers for universal purposes. Covers are being made in diverse sizes according to customer requirements.

Shielding equivalents are: 0.50 or 1.0 mm Pb.



STANDARD STYLE APRON

Standard width: 60 cm.
Length options: 90, 100, 110, 120, 130 cm.
Apron's front side has optional shielding equivalents: 0.25, 0.35 or 0.50 mm Pb.
Apron's back side can be without shielding or with shielding equivalent: 0.25 mm Pb.



SURGEON STYLE APRON

Standard width: 60 cm.
Length options: 90, 100, 110, 120, 130 cm.
Apron's front side has optional shielding equivalents: 0.25, 0.35 or 0.50 mm Pb.



SHIELDS AND DRAPES

Size or proportion are to be chosen according to individual requirements and parameters including random colour.
Shielding equivalents: 0.25, 0.50 or 1.0 mm Pb.



VEST

Sizes: small, medium, large (according to shoulder girth and hip girth).
Shielding equivalents of the vest's front side: 0.25 or 0.35 mm Pb.
Shielding equivalent of the vest's back side: 0.25 mm Pb.



SKIRT

Sizes: small, medium, large (measure from waist to length required).
Shielding equivalents of the skirt's front side: 0.25 or 0.35 mm Pb, of the back side: 0.25 mm Pb.



COAT

Length options: 90, 100, 110, 120 cm, recommended up to girth of chest: smaller up to 100 cm, bigger over 100 cm.
Shielding equivalents: (coat's front/back side): 0.25/0.25, 0.25/0.35, 0.35/0.35 mm Pb.



MITTEN

One piece, one unique size with open palm and Thumb.
Shielding equivalents: 0.50 or 1.0 mm Pb.



COLLAR

Two pieces collar of adjustable to any neck size.
Shielding equivalents: 0.25, 0.35 or 0.50 mm Pb.



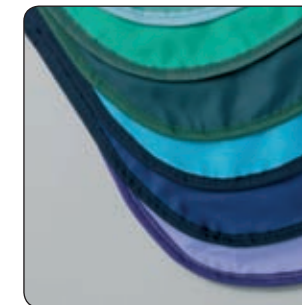
LEAD GLASSES

One size with flexi and adjustable headband. Shielding equivalent of front and side protection: 0.75 mm Pb.



HALF APRON

Sizes: 25×20 cm, 30×30 cm, 37×40 cm, 40×45 cm.
Shielding equivalent: 0.50 mm Pb.



COVER AND SCREEN

Random size.
Shielding equivalents: 0.50 or 1.0 mm Pb.



MOBILE APRON RACK

One or three swing arm racks to be hang on the wall.

For all products is offered following colour scale spectrum:

Offered colour options for nylon material:

| | | | | | | | | |
|-----|--------------|------------|------------|--------------|-----------|------|-------|--------------|
| red | light violet | light blue | dark green | forest green | navy blue | ruby | beige | crispy green |
| | | | | | | | | |

Offered colour options for vinytol material:

| | |
|------------|-------------|
| green-blue | petrol blue |
| | |

