



RAIN PROTECTIONS



DOOR LOCKS



WALL FIXING LUGS

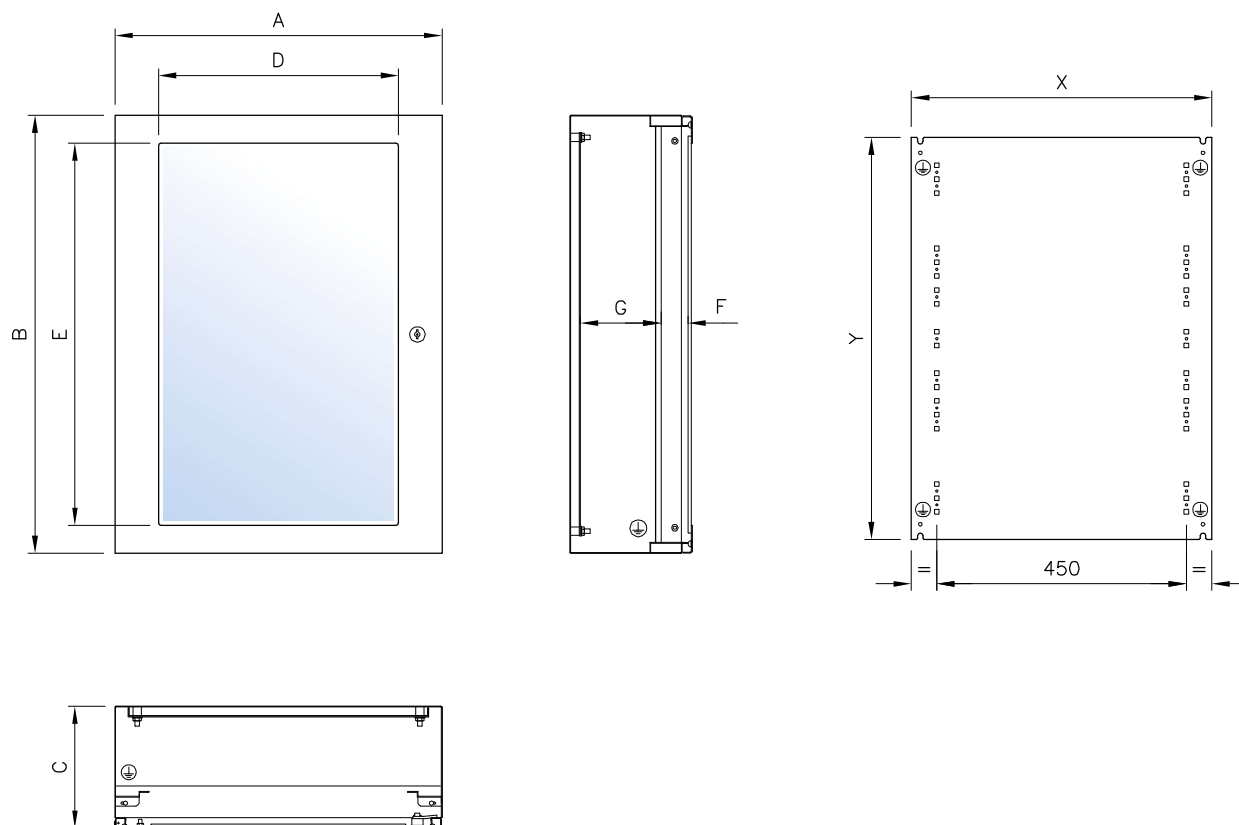


PANELS



ENCLOSURES QM

- The new QM series is designed to accommodate modular equipment.
- Made of EN 1.4307 (TYPE 304L) s/s, finely satin finished and protected on 1 side.
- Special attention was paid, in the design stage, to the details permitting to streamline and speed up wiring, without disregarding aesthetic, which has always been the hallmark of our work.
- The enclosure is obtained from a sheet suitably shaped on the front side to obtain the “seal labyrinth” between enclosure and door.
- The door, press-forged, features 3+3 shatterproof laminated glass to meet safety and long lasting unalterability requirements.
- Single central lock, twin-comb type, standardized Ø 3 for Low Voltage. Chromium-plated with attachment for 3-point lock, starting from model QM096.
- Inner hinges, s/s, 120° opening according to CEI EN 60204-1 recommendations.
- Seal of foamed polyurethane.
- Inner plate of sendzimir galvanized sheet, pre-drilled for DIN guides assembling. The assembling of guides and the relevant modular switches can be done in the factory to facilitate introduction of the pre-assembled frame into the cabinet. The modular panels are secured to two pre-drilled side uprights fixed to the enclosure.
- Fairlead plate not included.
- Prearranged for earthing according to the regulations in force.
- Protection degree : IP65 with closed door, IP20 with open door.
- Back: prearranged with four M6 inserts for wall mount.



IP56

EN 60 529/97-05
EN 50 102/96-05



EN 60204-1
89/392/EEC

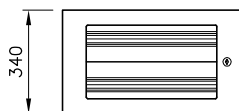
Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			DOOR VISIBLE		GLASS/PANEL GAP		USEFUL DEPTH		THICKNESS			INNER PLATE	
	A	B	C	D	E	F	G			MATERIAL	ECLOSURE	DOOR	X	Y
QM048	590	340	220	433	240	48	145			Type 304L	1,2 mm	1,5 mm	542	275
QM072	590	490	220	433	390	48	145			Type 304L	1,2 mm	1,5 mm	542	425
QM096	590	640	220	433	540	48	145			Type 304L	1,2 mm	1,5 mm	542	575
QM120	590	790	220	433	690	48	145			Type 304L	1,2 mm	1,5 mm	542	725
QM144	590	940	220	433	840	48	145			Type 304L	1,2 mm	1,5 mm	542	875
QM168	590	1090	220	433	990	48	145			Type 304L	1,2 mm	1,5 mm	542	1025

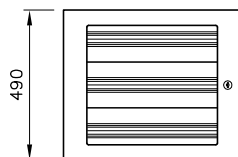


ENCLOSURES

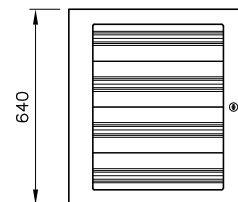
EQUIPMENT FOR MODULAR SWITCHES



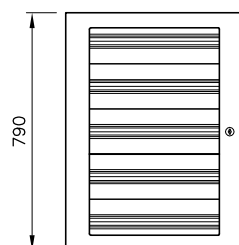
QM048
N. 48 MODULES (2 PQM150F)



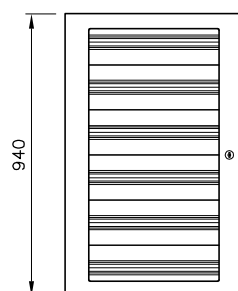
QM072
N. 72 MODULES (3 PQM150F)



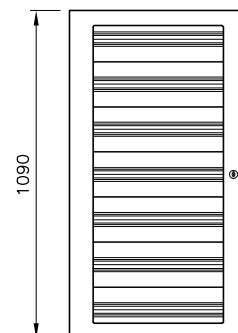
QM096
N. 72 MODULES (3 PQM200F)
N. 96 MODULES (4 PQM150F)



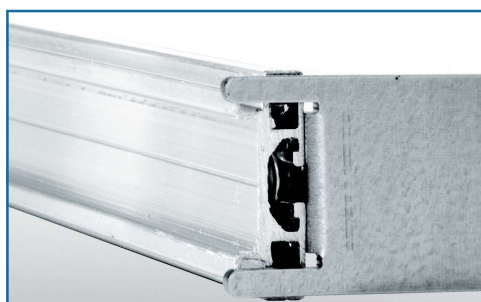
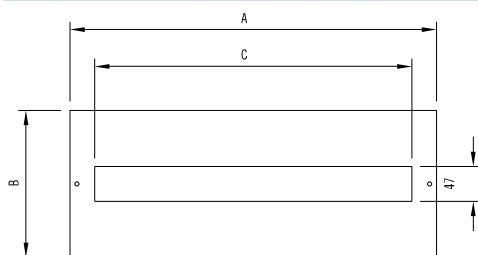
QM120
N. 96 MODULES (1 PQM150F + 3 PQM200F)
N. 120 MODULES (5 PQM150F)



QM144
N. 120 MODULES (2 PQM150F + 3 PQM200F)
N. 144 MODULES (6 PQM150F)



QM168
N. 144 MODULES (3 PQM150F + 3 PQM200F)
N. 168 MODULES (7 PQM150F)



PANELS

EN 1.4307 (TYPE 304L) s/s execution, finely satin-finished, to be bolted to the cabinet frame. Available in two different heights, 150 and 200mm, either pre-drilled or full; the latter can be drilled to drawing on demand. They can accommodate no. 24 modules each plate and are spaced 50mm from the glazed door.

ITEM	SIZES PANELS			N. MODULES FOR PANEL
	A	B	C	
PQM150F	499	149	432	24
PQM150C	499	149		CIECO-BLIND
PQM200F	499	199	432	24
PQM200C	499	199		CIECO-BLIND

DIN BARS

Obtained from extruded aluminium, they come complete with brackets of galvanized steel. Not included in the panels, they must be ordered separately.

- **DINQM24** – DIN bar, complete with brackets



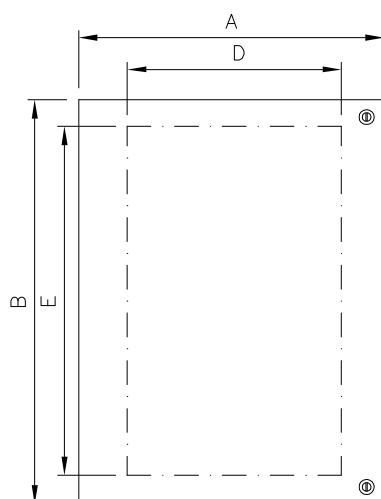
INNER DOORS

Delivered in assembling kit, to fix equipment inside the enclosures in a protected and locked area, they can be installed on all the small cabinets of the one-door Q series.

EN 1.4307 (TYPE 304L), s/s execution, finely satin-finished and protected by PVC adhesive film, thickness 12/10 and 15/10.

The inner door can be hinged on either the right or the left side. The standard supply includes chromium-plated indented locks. Instruments up to a maximum total weight of 12 kg can be set on the inner doors.

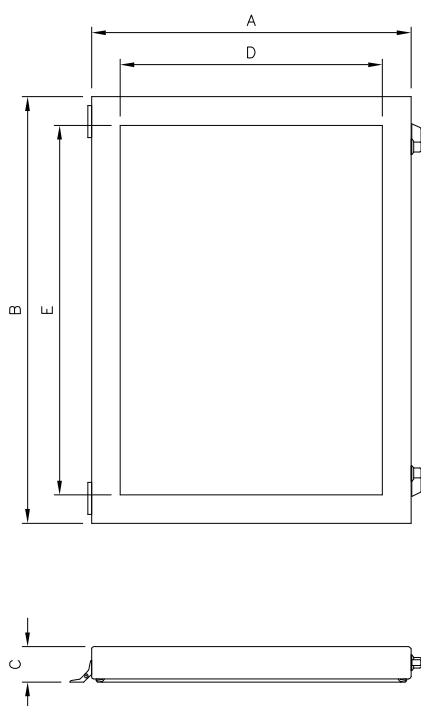
- The gap between door and inner door is 45 mm.
- Protection degree IP20.
- Drilling to drawing is possible on demand.



ITEM	SIZES		SPACE DRILLING		FOR ENCLOSURES
	A	B	D	E	
QC033/304	256	238	156	178	QL-QV33
QC034/304	256	388	156	328	QL-QV34
QC036/304	256	538	156	478	QL-QV36
QC043/304	406	238	306	178	QL-QV43
QC044/304	406	388	306	328	QL-QV44
QC046/304	406	538	306	478	QL-QV-QLP-QVP46
QC064/304	556	388	456	328	QL-QV64
QC066/304	556	538	456	478	QL-QV-QLP-QVP66
QC067/304	556	688	456	628	QL-QV67
QC068/304	556	738	456	678	QLP-QVP68
QC069/304	556	838	456	778	QL-QV69
QC077/304	706	688	606	628	QL-QV77
QC710/304	706	938	606	878	QL-QV710
QC612/304	556	1138	456	1078	QLP-QVP612
QC812/304	756	1138	656	1078	QL-QV-QLP-QVP812
QC616/304	552	1513	452	1453	QLP-QVP616
QC816/304	752	1513	652	1453	QLP-QVP816

Note : Not to be used on enclosures series QS and series QM

ENCLOSURES



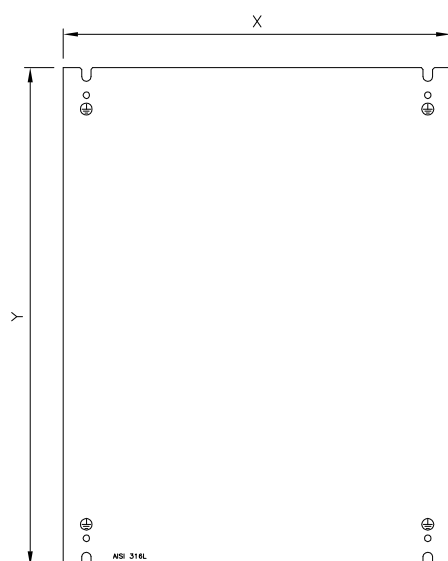
OVERDOORS

Made of EN 1.4307 (TYPE 304L) s/s, finely satin- finished, with 3+3 shatterproof laminated window, they are particularly recommended when instruments set on the outside door have to be protected. Complete with wing-nut black lock, galvanized, with Yale type key and built-in seal; 180° opening. Protection degree IP65.

NOTE: when set on width exceeding the width of the overdoor itself, the max. opening is 90°.

ITEM	A	B	C	D	E
SV33/45	300	300	45	220	220
SV34/45	300	450	45	220	370
SV36/45	300	600	45	220	520
SV43/45	450	300	45	370	220
SV44/45	450	450	45	370	370
SV46/45	450	600	45	370	520
SV64/45	600	450	45	520	370
SV66/45	600	600	45	520	520
SV67/45	600	750	45	520	670
SV68/45	600	800	45	520	720
SV69/45	600	900	45	520	820
SV612/45	600	1200	45	520	1120
SV77/45	750	750	45	670	670
SV710/45	750	1000	45	670	920
SV86/45	800	600	45	720	520
SV812/45	800	1200	45	720	1120
SV106/45	1000	750	45	920	670

ITEM	A	B	C	D	E
SV33/75	300	300	75	220	220
SV34/75	300	450	75	220	370
SV36/75	300	600	75	220	520
SV43/75	450	300	75	370	220
SV44/75	450	450	75	370	370
SV46/75	450	600	75	370	520
SV64/75	600	450	75	520	370
SV66/75	600	600	75	520	520
SV67/75	600	750	75	520	670
SV68/75	600	800	75	520	720
SV69/75	600	900	75	520	820
SV612/75	600	1200	75	520	1120
SV77/75	750	750	75	670	670
SV710/75	750	1000	75	670	920
SV86/75	800	600	75	720	520
SV812/75	800	1200	75	720	1120
SV106/75	1000	750	75	920	670



S/S INNER PLATES

EN 1.4404 (TYPE 316L)s/s execution, 2B finishing; available for all the cabinets of the QL/QV series; delivered in assembling kit (replacement at customer's charge).

ITEM	SIZES		FOR ENCLOSURES
	X	Y	
PQ033I	270	240	QL-QV33
PQ034I	270	390	QL-QV34
PQ036I	270	540	QL-QV36
PQ043I	420	240	QL-QV43
PQ044I	420	390	QL-QV44
PQ046I	420	540	QL-QV-QLP-QVP46
PQ064I	570	390	QL-QV64
PQ066I	570	540	QL-QV-QLP-QVP66
PQ067I	570	690	QL-QV67
PQ069I	570	840	QL-QV69
PQ077I	720	690	QL-QV77
PQ710I	720	940	QL-QV710
PQ812I	770	1140	812710
PQ107I	970	690	QL107



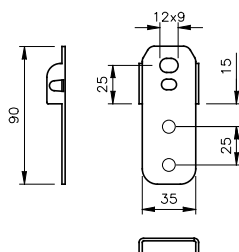
RAIN PROTECTIONS

EN 1.4307 (TYPE 304L)s/s execution, fine satin-finished and protected, they are available for all the cabinets. Recommended when the cabinets are envisaged to be installed outdoors and weather protection is therefore required.

They protrude 25mm from the front door and come in assembling kit.

ITEM	FOR ENCLOSURES
TP933	QL/QV33
TP934	QL/QV34 - QS034
TP936	QL/QV36
TP944	QL/QV43-44
TP945	QS045
TP946	QL/QV46
TP956	QS056
TP960	QL/QV64-66-67-69 - QS68
TP966	QL66P - QS069
TP977	QL/QV77-710
TP980	QL/QV812
TP946P	QLP/QVP46
TP960P	QLP/QVP66-68-612
TP980P	QLP/QVP812
TP9616P	QLP/QVP616
TP9816P	QLP/QVP816
TP9128	QLP128A
TP9168	QLP168A

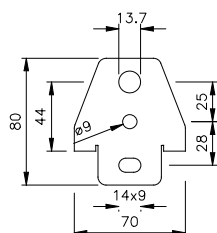
ENCLOSURES



WALL FIXING LUGS

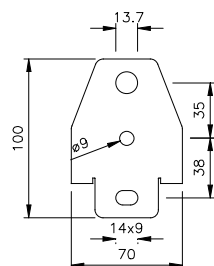
EN 1.4404 (TYPE 316L) s/s execution, they are easily set to the back of the cabinets of the “Q” series by the prearranged threaded drill. For assembling on big-sized enclosures, a second drill is foreseen at customer's charge. Waterproofing is assured by special seals. Each kit comes complete with assembling instructions, screws, nuts and washers.

- **SP025** – wall mount kit, 4 pcs.



EN 1.4404 (TYPE 316L) s/s execution, wall mount kit for cabinets QLP / QVP series, codes 612, 812, 814, 128A.

- **SP025A-QLP40** – wall mount kit, 4 pcs



EN 1.4404 (TYPE 316L) s/s execution, wall mount kit for cabinets QLP / QVP series, codes 816, 616, 168A.

- **SP025A-QLP60** – wall mount kit, 4 pcs



DOOR LOCKS

Various types of optional locks are available for all types of cabinets, all of them completely interchangeable with the standard ones, either with low tension key or Yale type key.

- **QL** – cod: SG221I, SG226I, SG227I, SG215SBL-304.
- **QS** – cod: SG215ZC, SG221ZC, SG226ZC, SG227ZC, SG215S-QS.

ITEM	TYPE	EXTERNAL	MATERIAL INSERT	TONGUE
SG215SBL-304	Box lock twin-comb insert	AISI 304 S/S	AISI 304 S/S	Zinc plated
SG221I	"T" handle key EK333(*)	Black polyamides	AISI 304 S/S	AISI 304 s/s
SG226I	Wing nut lock key EK333(*)	Black polyamides	AISI 304 S/S	AISI 304 s/s
SG227I	"L" handle key EK333(*)	Black polyamides	AISI 304 S/S	AISI 304 s/s

NOTE:

(*) Key EK333 Yale type is supplied with the lock. Different key coding can be provided on request.

Optional key to be ordered separately: item SG205CG (not in s/s). To have also the tongue in TYPE 304 s/s please ask for item KIT SG215.



GAS-OPERATED SPRINGS

The gas-operated springs are designed to open the doors upwards (seagull-wings); they facilitate opening and feature a braking device on top of the wing, reaching a balanced position when the door is open. Different capacities are available to meet the specific requirements. When ordering the springs, the weight and position of instruments and/or equipment, if any, should be mentioned so that the spring best suiting your requirements can be determined.

- **SA910** – gas-operated spring 10 Kg (including assembling)
- **SA915** – gas-operated spring 15 Kg (including assembling)
- **SA920** – gas-operated spring 20 Kg (including assembling)
- **SA930** – gas-operated spring 30 Kg (including assembling)
- **SA940** – gas-operated spring 40 Kg (including assembling)
- **SA950** – gas-operated spring 50 Kg (including assembling)



COUNTER-WEIGHTED SUPPORT RODS

The counter-weighted support rods can be applied to all types of cabinets when the door needs to be opened upwards (seagull-wing). Handy and safe, they reach the right position automatically at opening, so as to keep the door open. Can be assembled on the right or the left side. Starting from the size 600x600 up, the use of 2 rods is recommended, one on the right side and one on the left side.

- **ASQLVDX** – support rod DX for QL/QV/QLP/QVP
- **ASQLVSX** – support rod SX for QL/QV/QLP/QVP
- **ASQSMDX** – support rod DX for QS/QM
- **ASQSMSX** – support rod SX for QS/QM

NOTE: for big-sized doors and weight exceeding 12 kg, the use of the gas-operated springs is recommended.



ANTI-CLOSE DEVICE

EN 1.4404 (TYPE 316L) s/s EXECUTION, recommended to prevent the door accidental closing. Not suitable for cabinet with upwards opening door (seagull-wing).

- **DAC05** – Delivered in assembling kit.



MANIGLIA DI PRESA **MNB**



MANIGLIA DI PRESA **MBK**

GRIP HANDLES

Made of TYPE 304 s/s rod, polished; recommended when the cabinet is used as a control box. They come in assembling kit and two versions are available:

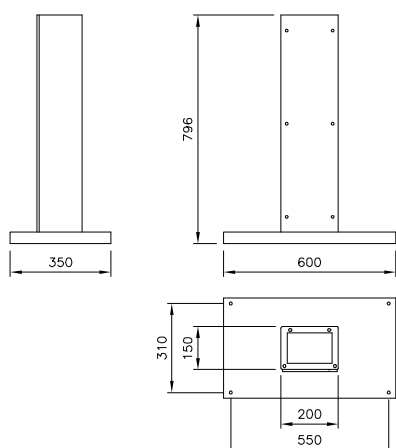
- **MNB200** – fastening distance between centres 200 mm.
- **MNB300** – fastening distance between centres 300 mm.
- **MBK300** – fastening distance between centres 275 mm.
- **MBK350** – fastening distance between centres 325 mm.
- **MBK450** – fastening distance between centres 425 mm.
- **MBK500** – fastening distance between centres 475 mm.

ENCLOSURES



PEDESTALS

Ideal for use either as simple stand or cable way, they are made of EN 1.4307 (TYPE 304L) s/s and available in two versions.



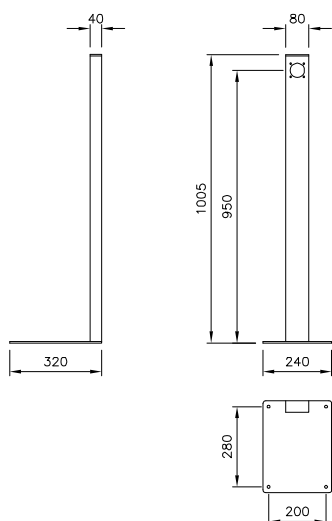
PEDESTAL SERIES PR200

Satin-finished, suitable for application under cabinets having a minimum depth of 250 mm; it consists of a C-shaped bent column, complete with bolted cover with gasket to assure inspectability. Complete with sendzimir inner plate. Protection degree IP65.

A sendzimir counterplate is also available to firmly secure the modular cabinets to the top of the column (for cabinets starting from L.600).

These counterplates have to be ordered expressly, using the following codes:

- **PPRQ6025** – counterplate for cabinets QL/QV64-66-67-69.
- **PPRQ7530** – counterplate for cabinets QL/QV77-710.



PEDESTAL PR100

Used for pushbutton-boards and cabinets with minimum depth 125 mm, it consists of s/s channel, micropeened, not inspectable, and a predrilled plate for ground fixing.



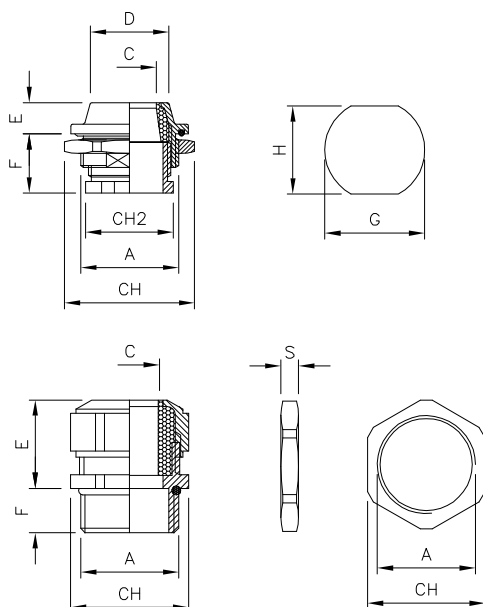
CABLE GLANDS

The cable glands, s/s execution, are to be used to prevent corrosion. This series, manufactured to UNI EN 1.4305 (TYPE 303), is particularly fit for use in wet environment and in dry/wet conditions.

The FPM seal creates a barrier to the radioactive radiance of up to 2,5x10⁵ Gray, and assures excellent strength to cable pulling.

- Protection degree IP68 to EN 60 529 and IP69K to DIN 40 050-T9.
- Temperature range: -40°C + 200°C, intermittent up to 240°C.
- EMC version available on demand.

These cable glands are delivered without ring nut, which must be ordered separately when the need be.



RING NUT PG

ITEM	THREADING	KEY	
	A	CH	S
GPG07303	PG7	15	3,5
GPG09303	PG9	19	3,5
GPG11303	PG11	22	3,5
GPG13303	PG13	24	4
GPG16303	PG16	27	4
GPG21303	PG21	32	4,5
GPG29303	PG29	41	5,5
GPG36303	PG36	51	6

CABLE GLAND PG

ITEM	THREADING	CABLE DIAMETER	KEY		
	A	C	CH	E	F
PG07303	PG7	5 ÷ 6,5	17	17	10
PG09303	PG9	8 ÷ 10,5	19	20	10
PG11303	PG11	8,5 ÷ 12	22	21	10
PG13303	PG13	11 ÷ 15	24	21	10
PG16303	PG16	11 ÷ 15	24	21	10
PG21303	PG21	16 ÷ 20,5	30	25	12
PG29303	PG29	23 ÷ 27,5	41	28	12
PG36303	PG36	30,5 ÷ 35	50	32	15

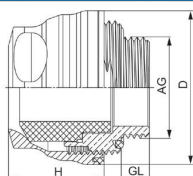
METRIC RING NUT

ITEM	THREADING	KEY	
	A	CH	S
GPM12303	M12x1,5	17	3
GPM16303	M16x1,5	19	3
GPM20303	M20x1,5	24	3,5
GPM25303	M25x1,5	30	3,5
GPM32303	M32x1,5	36	4,5
GPM40303	M40x1,5	46	4,5

METRIC CABLE GLAND

ITEM	THREADING	CABLE DIAMETER	KEY		
	A	C	CH	E	F
PM12303/3,5-5,0	M12x1,5	3,5 ÷ 5	17	17	10
PM12303/5,0-6,5	M12x1,5	5 ÷ 6,5	17	17	10
PM12303/6,5-8,0	M12x1,5	6,5 ÷ 8	17	17	10
PM16303/6,0-10,5	M16x1,5	8 ÷ 10,5	19	20	10
PM20303/8,0-15,0	M20x1,5	8 ÷ 15	24	21	10
PM25303/12,5-20,5	M25x1,5	12,5 ÷ 20,5	30	25	11
PM32303/17,0-25,5	M32x1,5	17 ÷ 25,5	36	28	13
PM40303/24,0-33,0	M40x1,5	24 ÷ 33	46	31	13

ENCLOSURES



Advice:

- EMC connection integrated
- VDMA Riboflavin cleaning test passed
- EHEDG 01 cleaning test passed
- EHEDG certificate EL class I AUX approved

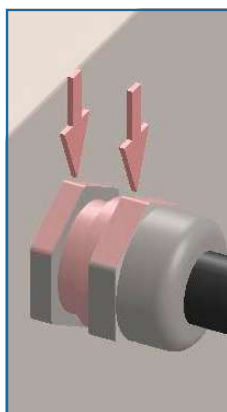
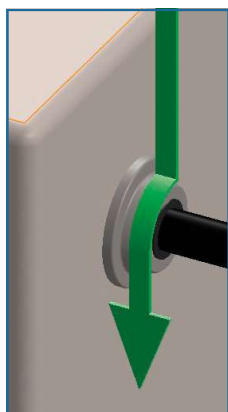
CABLE GLANDS

Metric cable glands Series PH meet the requirements for use in food, dairy, pharmaceutical industries as well as in all those environments where compliance with hygienic-sanitary regulations is a must (Directive on machinery 2006/42/EC DIN EN 1672-2-2005, Documents EHEDG 8 E 13). This is possible thanks to the technical solutions adopted and to the design criteria: 25% sloping surfaces to avoid filth build-up; radial corners; no threads; gaps in contact with the outside; tamperproof for they cannot be opened from the outside. Delivered complete with OR, standard seal on the cable and ring nut.

EN 1.4307 (TYPE 304L) s/s execution, mirror finish; the EPDM seal is fit for use in the environments for which the cable gland has been designed: gaskets made from different materials can be supplied on request.

- Protection degree IP68 as per EN 60 529 and IP69K as per DIN 40 050-T9.
- Temperature range: -40°C + 180°C, intermittent up to 40°C approx.

IDEAL FOR HIGH-PRESSURE CLEANING



SANITARY CABLE GLAND

Smooth slanting surfaces, no threads in contact with the environment, radial corners.

TRADITIONAL CABLE GLAND

Unprotected threads, sharp corners and level surfaces not draining.

ITEM	CLAMPING RANGE (MM)	AG	GL (MM)	D (MM)	SW (MM)	H (MM)
PH12050	5 - 6,5	M 12 x 1,5	6	21	14	19
PH16060	6 - 7,5	M 16 x 1,5	6	27	19 - 21	20
PH16075	7,5 - 10	M 16 x 1,5	6	27	19 - 21	20
PH20090	9 - 12	M 20 x 1,5	6	33	24 - 27	22,5
PH20110	11 - 13,5	M 20 x 1,5	6	33	24 - 27	22,5
PH25140	14 - 16	M 25 x 1,5	7	38	30	23,5
PH25150	15 - 18	M 25 x 1,5	7	38	30	23,5
PH32180	18 - 21	M 32 x 1,5	8	45	36	26,5
PH32210	21 - 25	M 32 x 1,5	8	45	36	26,5

PLUGS

EN 1.4404 (TYPE 316L) s/s execution, to close holes previously made and not used.

With only 4 items, using the appropriate centring washers, all the drills ranging between Ø 6,5 and Ø 40 mm. can be covered, including shaped drills for the cable glands of the "SANITARY" series.

ITEM	Ø	RANGE GLANDS	
		FOR DRILLS	FOR CABLE GLANDS
TP0716	20	6,5 ÷ 16	PG7 - PG9 - M12 - M16
TP1624	28	16,5 ÷ 24	PG11 - PG13,5 - PG16 - M20
TP2431	35	24,5 ÷ 31	PG21 - M25
TP3140	45	31,5 ÷ 40	PG29 - M32 - M 40

ACCESSORIES FOR ENCLOSURES



SRS Wiring System



Adjustable Feet



Diagram Holding Pockets



Electroconductive Gaskets



Lamps



Taps



IN THE SECTION "CONTROL BOXES AND HANGING SYSTEMS"

Hanging Systems



IN THE SECTION "AIR CONDITIONING"

Ventilation

