Selection Datasheet

Vent plugs, pressure relief valves and cable glands for sealed enclosures — battery energy storage cabinets, outdoor cabinets, EV chargers, control housings.

Part number	Type	Body material	Threads	Status
PV-M	Screw-in waterproof vent plug	PA66, UL94 V-0	M5×0.8 to M40×1.5 (10 stocked)	Series
SV-M	Vented screw / machined metal breather plug	SS304 or nickel-plated brass	M5×0.8 as standard; other metric sizes on re…	Series
CZ6992	Metal ventilated and waterproof connector (cable gland with breather membrane)	Nickel-plated brass	M10–M20 / PG7–PG13.5	Series
CG-SS	Sealing cable gland, stainless steel	SS304 or SS316	M8×1 to M100×1.5	Series
IV-M20	Vent plug with visual failure indicator	PC or PA66, UL94 V-0	M20×1.5	Sample
RV-M20-AI	Spring-loaded pressure relief valve, anti-icing seat	PA66 / SS304	M20×1.5	Sample

How to read this sheet

- Every figure here is the figure published for that part on honvale.com at the version date below. Nothing on this sheet is a target, a promise or a typical value presented as a guarantee.
- Where a property says *Data on request*, that figure is measured for the thread or build you order and is stated on the quotation — airflow in particular depends on the test pressure and the unit, so a single catalogue number would be misleading.
- **IP68 is as stated by the body maker.** No third-party report on the finished assembly is held, and none is claimed.
- Parts marked *Sample* are engineering samples. They are supplied for evaluation against your drawing and are not in series production.
- These are industrial components, not safety devices. They are not pressure-relief devices within the meaning of NFPA 68, NFPA 855 or EN 14491, and they do not replace one.

PV-M SERIES

The general-purpose nylon breather. Ten stocked thread sizes; M18x1.5 built to order.

Part number	PV-M
Type	Screw-in waterproof vent plug
Body material	PA66, UL94 V-0
Membrane	Laminated ePTFE
Sealing	O-ring
Threads — stocked	M5×0.8 / M6×1.0 / M8×1.25 / M10×1.5 / M12×1.5 / M16×1.5 / M20×1.5 / M24×1.5 / M32×1.5 / M40×1.5
Threads — built to order	M18×1.5
Colours	Black / white / grey. M10 is black and white only.
Unit weight	1 g (M5) to 30 g (M40)
IP rating	IP68 — as stated by the body maker. No third-party report on the finished assembly is held, and none is claimed.
Operating temperature	Data on request — depends on the O-ring grade
Airflow	Data on request — measured per thread size at a stated test pressure
MOQ, lead time, sample policy	See contact

Dimensional data

Thread	Thread length	Panel range	Colours	Weight
M5×0.8	7 mm	1 – 3 mm	Black, white, grey	1 g
M6×1.0	7 mm	1 – 3 mm	Black, white, grey	1 g
M8×1.25	10 mm	1.5 – 4 mm	Black, white, grey	2 g
M10×1.5	10 mm	1.5 – 5 mm	Black, white	3 g
M12×1.5	10 mm	2 – 6 mm	Black, white, grey	2 g
M16×1.5	10 mm	2 – 8 mm	Black, white, grey	5 g
M20×1.5	10 mm	2 – 10 mm	Black, white, grey	8 g
M24×1.5	15 mm	2 – 12 mm	Black, white, grey	12 g
M32×1.5	15 mm	3 – 15 mm	Black, white, grey	21 g
M40×1.5	15 mm	3 – 18 mm	Black, white, grey	30 g
M18×1.5	Built to order	—	—	—

M12 variant	Across flats	Fixing	Colours	Weight
M12×1.5	17 mm	Nut supplied	Black, white, grey	2 g
M12×1.5	16 mm	Nut supplied	Black, white, grey	2 g
M12×1.0	16 mm	No nut	Black	2 g

SV-M SERIES

Vented screw in SS304 or nickel-plated brass, M5x0.8 as standard.

Part number	SV-M
Type	Vented screw / machined metal breather plug
Material	SS304 or nickel-plated brass
Thread	M5×0.8 as standard; other metric sizes on request
Sealing	Bonded sealing washer
Membrane	Laminated ePTFE
Head	Driver slot or hex, cut to the size ordered
IP rating	IP68 — as stated by the body maker. No third-party report on the finished assembly is held, and none is claimed.
Operating temperature	Data on request — depends on the washer grade
Airflow	Data on request — measured per size at a stated test pressure
Unit weight	Data on request
MOQ, lead time, sample policy	See contact

Choosing among the venting parts

Part	Body	What it adds	Pick it when
PV-M	PA66	Ten stocked threads, M5 to M40	The opening is a plain tapped hole and a nylon body suits the panel
SV-M	SS304 / Ni-plated brass	Metal body, low profile, M5×0.8	A metal body is required, or the thread is small
CZ6992	Ni-plated brass	Cable entry and breathing in one hole, 70 mbar opening	Hole count or wall space leaves no room for a separate vent
IV-M20	PC / PA66	Colour-change indicator	A blocked vent has to be visible without pulling the part
RV-M20-AI	PA66 / SS304	Spring-loaded seat, opens at a set pressure	Pressure rises faster than a membrane can equalise it

CZ6992 SERIES

Nickel-plated brass connection combining a cable entry with a breathing membrane. 70 mbar opening pressure.

Part number	CZ6992
Type	Metal ventilated and waterproof connector (cable gland with breather membrane)
Body material	Nickel-plated brass
Sealing material	NBR
Threads — metric	M10 / M12 / M16 / M18 / M20
Threads — PG	PG7 / PG9 / PG11 / PG13.5
Operating temperature	−40 °C to +100 °C
Opening pressure	70 mbar
Membrane	Laminated ePTFE
IP rating	IP68 — as stated by the body maker. No third-party report on the finished assembly is held, and none is claimed.
Airflow	Data on request. Measured per thread size at a stated test pressure; ask for the figure for your thread.
Unit weight	Data on request
MOQ, lead time, sample policy	See contact

IV-M20 ENGINEERING SAMPLE

Vent plug with a colour-change failure indicator. Engineering sample.

Part number	IV-M20
Type	Vent plug with visual failure indicator
Thread	M20×1.5
Body material	PC or PA66, UL94 V-0
Indicator	Colour-change strip behind a toughened viewing window
Membrane	Laminated ePTFE
IP rating	Target: IP68. Not an achieved rating, and no third-party report is held.
Production status	Engineering sample — not in series production
Operating temperature	Data on request — depends on the final body material
Airflow	Data on request — measured per sample build
Ordering	Not available for production quantities at this stage
For evaluation	Dimensional drawing and current test record on request — contact

CG-SS SERIES

Sealing cable gland, SS304 or SS316. Does not vent.

Part number	CG-SS
Type	Sealing cable gland, stainless steel
Material	SS304 or SS316
Thread forms	Metric (M), PG, NPT, G
Thread range	M8×1 to M100×1.5
Sealing	Sealing insert on the cable sheath, O-ring on the entry face, washer under the locknut
IP rating	IP68 — as stated by the body maker. No third-party report on the finished assembly is held, and none is claimed.
Supplied with	Locknut and sealing washer
Operating temperature	Data on request — depends on the sealing insert grade
Airflow	Not applicable — this part does not vent
MOQ, lead time, sample policy	See contact

Dimensional data

Thread	Typical cable range	Entry to cut
M12×1.5	3 – 6.5 mm	12.0 mm
M16×1.5	4 – 8 mm	16.0 mm
M20×1.5	6 – 12 mm	20.0 mm
M25×1.5	13 – 18 mm	25.0 mm
M32×1.5	16 – 23 mm	32.0 mm
M40×1.5	24 – 32 mm	40.0 mm
PG9	4 – 8 mm	15.2 mm
PG13.5	6 – 12 mm	20.4 mm
PG16	10 – 14 mm	22.5 mm
PG21	13 – 18 mm	28.3 mm
NPT 1/2	6 – 12 mm	21.2 mm
NPT 3/4	13 – 18 mm	26.5 mm

Notes

	Note
Thread range above	Common sizes only. M8, M50 to M100 and G threads are on the cable gland size chart.
Ranges	Typical values, not guaranteed. Confirm against the part number before you drill or punch.

RV-M20-AI ENGINEERING SAMPLE

Spring-loaded pressure relief valve with an anti-icing collar. Engineering sample.

Part number	RV-M20-AI
Type	Spring-loaded pressure relief valve, anti-icing seat
Thread	M20×1.5
Body material	PA66 / SS304
Relief element	Spring-loaded seat — not a membrane
Opening pressure	Set to your specification
Anti-icing	Collar keeps the seat free at sub-zero temperatures
IP rating	Target: IP68. Not an achieved rating, and no third-party report is held.
Production status	Engineering sample — joint development against your pack drawing
Operating temperature	Data on request — set by the seat and spring grade
Flow capacity	Data on request — depends on set pressure and seat area
Ordering	Project-dependent. Quote against a drawing — contact

Where this part stops

- It opens at the set pressure you specify. That makes it a pressure relief valve, not a certified pressure-relief device, and it does not replace one where NFPA 68, NFPA 855 or EN 14491 calls for one.
- Set pressure, flow capacity and seat area are agreed against your pack drawing. Nothing on this sheet fixes them, and no figure is quoted before the drawing is agreed.
- Engineering sample at the date of this sheet: not in series production, supplied for evaluation only.

Ordering

What we need from you to quote a vent plug or a gland, and what comes back.

Send us	Thread size and form (M, PG, NPT, G), panel thickness at the opening, body material or colour if it matters, the environment (washdown, salt spray, sub-zero, chemical), and your annual or first-order quantity.
You get back	A quotation against the exact part number, with the airflow figure for your thread size at a stated test pressure, the operating temperature range for the seal grade quoted, MOQ and lead time, and the dimensional drawing where one exists.
Samples	Supplied against a part number, not against a description. If the thread or the panel thickness is not yet fixed, say so — that is what the sample is for.
Drawings and OEM	Custom body, thread, colour, head form and packaging are built to your drawing. Send the drawing; we answer with feasibility, tooling position and price, not with a brochure.
Certificates	A material certificate can accompany the shipment. Unless a certificate is expressly listed on the quotation, none is supplied — no ATEX, IECEx, UL or CE mark is claimed for these parts.

Series at a glance

Series	Covers	Typical duty
PV	Nylon screw-in vent plug, M5–M40	General pressure equalisation on cabinets, inverters, luminaires, control housings
SV	SS304 / nickel-plated brass vented screw, M5×0.8	Where a metal body or a low profile is required
CZ	Brass ventilated cable entry, 70 mbar opening	One opening doing two jobs: cable in, cabinet breathing
CG	SS304 / SS316 sealing cable gland, M / PG / NPT / G	Cable entries on outdoor and wash-down enclosures — does not vent
IV	Vent plug with colour-change failure indicator	Where a blocked vent has to be visible without a test — engineering sample
RV	Spring-loaded pressure relief valve with anti-icing seat	Liquid-cooled battery packs and enclosures that see sub-zero — engineering sample

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