

MODEL LPR – VENT VALVE

The LPR vent valve is intended for use in applications that require a low pressure gas or vapour vent with smaller capacities and physical size then is available with normal conservation vents.

Installations typically suited the the LPR are:- closed vessels in the food, pharmaceutical, processing and product storage industries requiring protection from over pressure from the process reaction, tank filling or ambient temperature elevation.

The LPR vent will provide this protection, plus it provides a choice of materials that will satisfy the requirements of material compatibility and piped venting.

Tank or vessel pressure is sensed by the large sensing diaphragm which acts against an adjustable spring. When the set pressure is reached, the inner valve attached to the diaphragm will begin to open, thus relieving the vessel pressure. In the unlikely event of diaphragm failure, vessel pressure will escape through the spring casing vent which is also provided with a warning whistle to indicate diaphragm failure.

Valve seating is provided by a variety of elastomeric materials. If the diaphragm material is not compatible with the process vapour, a TFE diaphragm protector can be specified. Body and seat materials are stainless steel, spacer and spring case materials are aluminium.

Because the inner valve opening varies proportionally with an increase in process pressure, there is no sudden pressure variations due to rapid opening when the set pressure is reached. There is a small blow-down effect on re-seating.

Installation

The LPR vent may be installed in any position except upside down. The preferred position is upright (with the connections facing downward) this allows any moisture build-up to drain back into the vessel through the inlet port.



Specifications

Pressure settings: 1 to 40 kPa
Body material: Stainless Steel
Connections: 25mm BSP male (NPT available and female connections optional)
Diaphragm: Nitrile (TFE protector optional)
Spring case: Coated Aluminium

Temperature range: -29 to +66 C
Shipping weight: 1.5 kg

Ordering Information

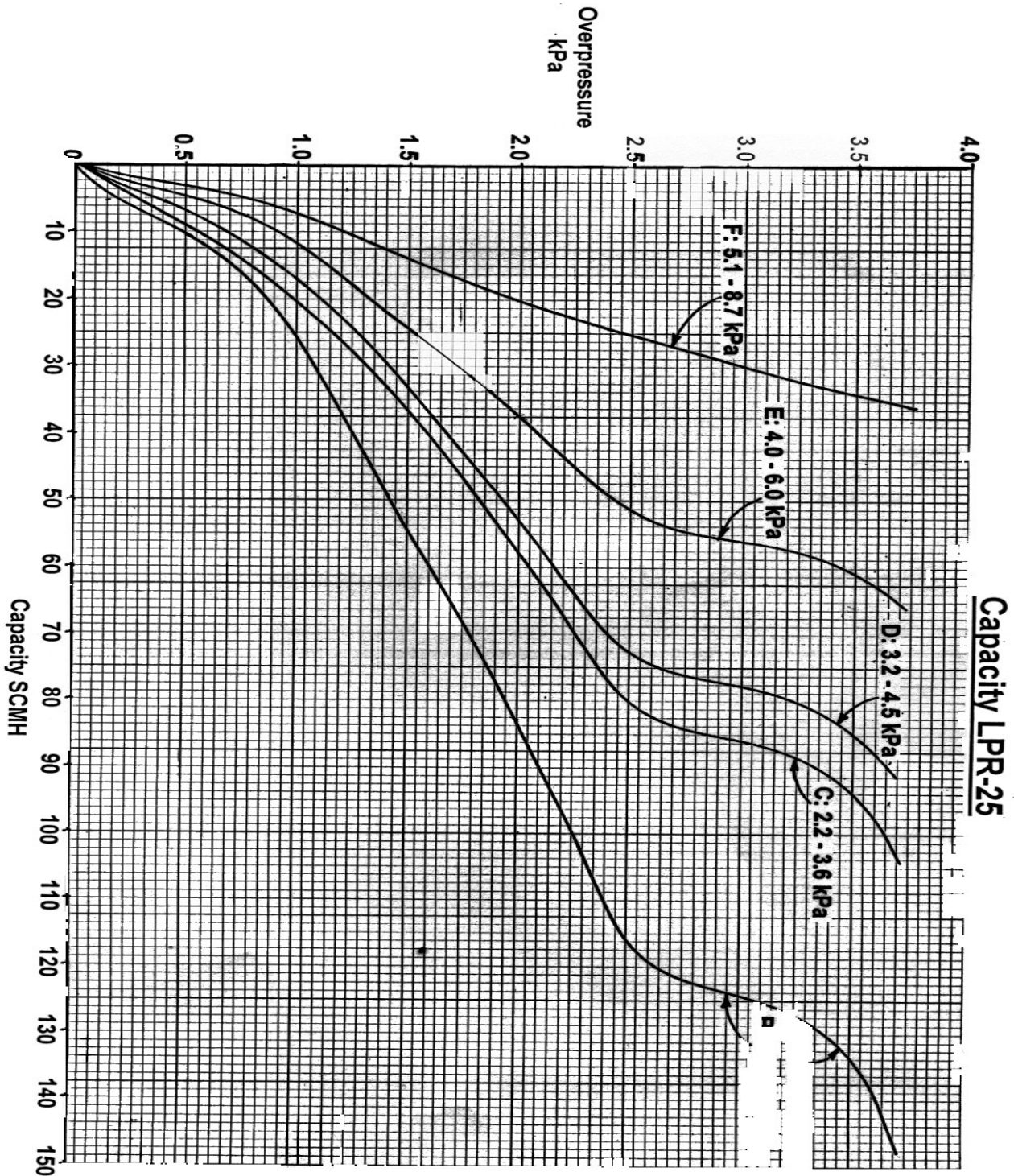
Required set pressure
Normal operating pressure of the process
Temperature
Vapour/Gas type (for material compatibility)
Options required

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EnPro

MODEL LPR – VENT VALVE



Range Spring nominated on capacity curve.



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