

# Safety Exhaust Valve Modular Connection Type

Safety Standard ISO 13849-1 Certified  
(Corresponding to Categories 3 and 4)

**New** Double common specification has been added.

## Exhaust flow rate characteristics [L/min(ANR)]

**10,500** (VPX406-A3)

**13,000** (VPX406-A4)

**15,000** (VPX406-A6)

\* At 0.6 MPa

## Space saving & Lightweight

3 functions have been integrated.

Safety  
Exhaust



Soft Start



Monitoring

Modular  
connection is  
possible.

(AC30/40/50/60-D Series)



## Standards and Enclosure

| Series                                | Category           | Required performance level (Max.) | Standards            |                                              |                   |  |         |        | Soft start-up valve | Enclosure |                    |  |
|---------------------------------------|--------------------|-----------------------------------|----------------------|----------------------------------------------|-------------------|--|---------|--------|---------------------|-----------|--------------------|--|
|                                       |                    |                                   | Machinery directive  |                                              | 2006/42/EC        |  | CE/UKCA | UL/cUL | RoHS                |           |                    |  |
|                                       |                    |                                   | Harmonized standards | EN ISO 13849-1: 2023<br>EN ISO 13849-2: 2012 | EN ISO 4414: 2010 |  |         |        |                     |           |                    |  |
| Safety exhaust valve<br><b>VPX400</b> | 3, 4* <sup>1</sup> | PL e                              |                      |                                              |                   |  |         |        |                     |           | IP65* <sup>2</sup> |  |

\*1 Depending on the applied diagnostic test

\*2 It is IP40 depending on the type of pressure gauge. For details, refer to the valve specifications.

## VPX400 Series

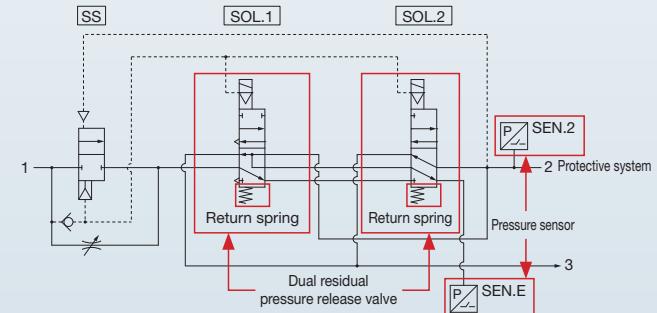
# Series variations

High flow rate: Approx. 3.0 times (AC30 connection) / Approx. 2.5 times (AC40 connection)

| Series                                | Model                          | Category | Compatible Max. PL | Connected AC size | Flow rate characteristics   |  |      |  |  |      |  | Passage       |
|---------------------------------------|--------------------------------|----------|--------------------|-------------------|-----------------------------|--|------|--|--|------|--|---------------|
|                                       |                                |          |                    |                   | C[dm <sup>3</sup> /(s·bar)] |  |      |  |  |      |  |               |
| Safety exhaust valve VPX400           | VPX406-A3 (AC30 connection)    | 3, 4     | PL e               | AC30              |                             |  |      |  |  | 25.0 |  | 2 ⇒ 3 (A ⇒ R) |
|                                       | VPX406-A4 (AC40 connection)    |          |                    | AC40              |                             |  |      |  |  | 31.0 |  |               |
|                                       | VPX406-A6 (AC50/60 connection) |          |                    | AC50/60           |                             |  |      |  |  | 35.8 |  |               |
| Residual pressure release valve VP546 | VP546                          | 3, 4     | PL e               | AC30              |                             |  | 8.3  |  |  |      |  | 2 ⇒ 3 (A ⇒ R) |
|                                       | VP746                          |          |                    | AC40              |                             |  | 12.3 |  |  |      |  |               |

## System protection through “Safety Exhaust” function

- Valves return to de-energised position via spring force in the case of power loss.
- If one of the residual pressure release valves fails to operate, the other one releases the residual pressure.
- Built in pressure sensor monitors valve operations.



## Display of monitoring status: Fault can be checked visually as well as by signal.

