

RELIEF VALVES

APPLICATIONS

Relief valves prevent overpressure in the lines and the pump head by opening a bypass line if the pressure is too high.

FUNCTION

Relief valves especially protect displacement pumps, which theoretically can build up an infinitely high pressure.

With restricted or closed pressure lines, a multiple of the permissible system pressure can be achieved, e.g. through clogged lines (foreign matter, crystals) or closed shut-off devices, clogged nozzles, added filters, etc. In these cases, the gentle relief valve is the optimal protection.

Relief valves are not safety valves in the sense of the Pressure Equipment Directive (97/23/EC).

INSTALLATION

The relief valve is designed as standard for installation in a horizontal flow direction. The hood must be installed vertically upwards.

The relief valve must be mounted in such a way that no static, dynamic or thermal loads from the supply line and/or return line can be transferred to the overflow valve.

Install the relief valve in the immediate vicinity of the pump and before the first shut-off valve.

OVERVIEW

- Easy installation
- maintenance-free
- Reliable
- Overpressure protection of dosing pumps
- High quality materials
- Low weight

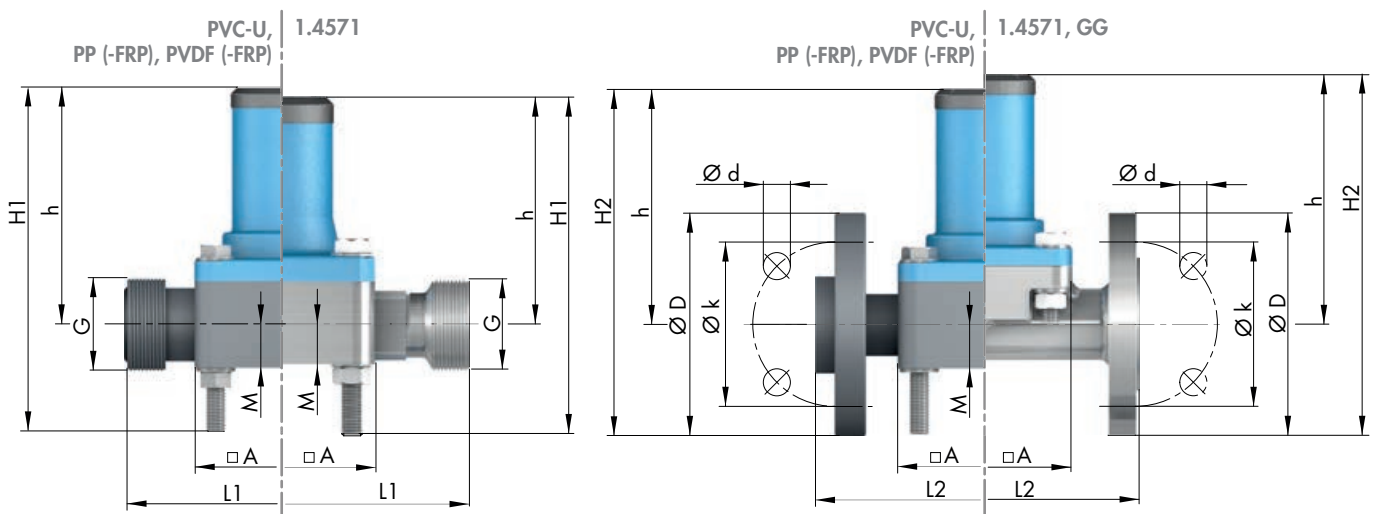
MATERIALS

Thread Connection		620.10	622.10	623.10	624.10	625.10	626.10	627.10
Relief valve	PVC-U	■	■	■	■	■	■	■
	PP, PVDF	■	■	■	■	■	■	■
	PP-FRP, PVDF-FRP		■					
	1.4571	■	■					
Diaphragm	PTFE-faced	■	■	■	■	■	■	■
	FPM	■	■	■	■	■	■	■
Seals	EPDM	■	■	■	■	■	■	■
	FEP ¹⁾	■	■	■	■			
Flange Connection								
Relief valve	PVC-U	■	■	■	■	■	■	■
	PP, PVDF	■	■	■	■	■	■	■
	PP-FRP, PVDF-FRP		■					
	1.4571, GG			■	■	■	■	■
Membrane	PTFE-faced	■	■	■	■	■	■	■

¹⁾ Seals made of FEP only with diaphragm relief valves made of PVDF, PVDF-FRP and 1.4571

TECHNICAL DATA / DIMENSIONS

		620.10	622.10	623.10	624.10	625.10	626.10	627.10
Inlet/outlet nominal width	DN	8	15	20	25	32	40	50
Permissible operating pressure	bar	10	10	10	10	10	10	10
Set pressure p_e	bar	2,5...10	2,5...10	1,5...10	1,5...10	1,5...10	1,5...10	1,5...10
Max. flow rate	l/h	200	500	1000	2000	4000	7000	10000



		620.10	622.10	623.10	624.10	625.10	626.10	627.10
G	PVC-U, PP (-FRP), PVDF (-FRP)	G $\frac{3}{4}$	G1	G1 $\frac{1}{4}$	G1 $\frac{1}{2}$	G2	G2 $\frac{1}{4}$	G2 $\frac{1}{2}$
	1.4581	G $\frac{3}{4}$	G1	–	–	–	–	–
A	PVC-U, PP (-FRP), PVDF (-FRP), 1.4581	50	72	80	90	100	115	140
M	PVC-U, PP (-FRP), PVDF (-FRP)	13	15	28	22,5	24	30	38
	1.4581	13	16	–	–	–	–	–
L1	PVC-U, PP (-FRP), PVDF (-FRP)	80	115	130	160	180	235	260
	1.4581	110	145	–	–	–	–	–
L2	PVC-U, PP (-FRP), PVDF (-FRP)	110	145	160	175	200	235	260
	1.4581	–	–	150	160	180	200	230
h	PVC-U, PP (-FRP), PVDF (-FRP)	80	90	116	123	157	180	185
	1.4581	80	88	125	130	165	180	185
H1	PVC-U, PP (-FRP), PVDF (-FRP)	113	130	169	166,5	206	249	254
	1.4581	108	129	–	–	–	–	–
H2	PVC-U, PP (-FRP), PVDF (-FRP)	125	137,5	168,5	180,5	227	255	267,5
	1.4581	–	–	177,5	187,5	235	255	267,5
k	PVC-U, PP (-FRP), PVDF (-FRP), 1.4581	60	65	75	85	100	110	125
d	PVC-U, PP (-FRP), PVDF (-FRP), 1.4581	14	14	14	14	18	18	18
D	PVC-U, PP (-FRP), PVDF (-FRP), 1.4581	90	95	105	115	140	150	165

(Dimensions in mm)