

Description Air supply is immediately shut off when volume flow exceeds a specific value. The maximum admissible flow is factory-set in such a way that a standard application of pneumatic equipment is ensured. Pressure drop amounts to 0.05 to 0.3 bar. In the case of failure, the hose rupture valve blows off through a small nozzle. After repairing the hose break, the hose rupture valve can be set to zero again.

EN ISO 4414-11.2010 According to EN ISO 4414-11.2010 the hose rupture valve protects individuals, systems and machines from injuries or damages caused by lashing hose lines in the event of hose breaks.

Function The air passes the piston and continues through the seat. The air stream is slowed down by means of lengthwise grooves on the piston surface. When the volume flow is too high, the air cannot pass the piston quickly enough, thus the piston will be pressed against the spring. If the maximum admissible flow is exceeded, e.g. when the hose suddenly breaks, the air supply will automatically be shut off.

Supply pressure max. 18 bar
Temperature range -20 °C to 80 °C / -4 °F to 176 °F at G¼ to G½, up to 120 °C / 248 °F at G¾ to G2
Material Body: aluminium, optionally stainless steel Elastomer: NBR/Buna-N
 Inner valve: aluminium and plastic



max. 18 bar
G¼ up to G2

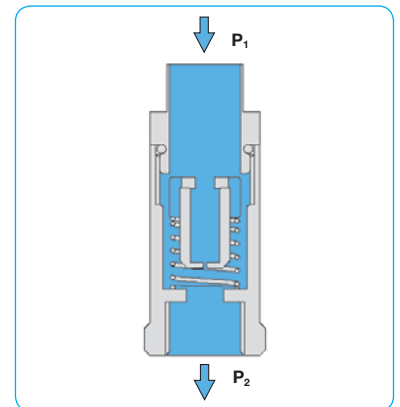
Dimensions			max. flow rate at 8 bar *2		Connection thread	Order number
B	C	A/F	m³/h	l/min		
mm	mm	mm			G	

Hose Rupture Valve "HoseGuard®" operating pressure max. 18 bar **281**

49	-	22	46	760 *1	G¼	281A0211
49	10	22	46	760 *1	G¼ai	281A0221
49	-	22	3	52	G¼	281ZL0211
49	10	22	3	52	G¼ai	281ZL0221
49	-	22	60	990	G¼	281ZH0211
49	10	22	60	990	G¼ai	281ZH0221
58	-	27	65	1080 *1	G¾	281A0311
58	12	27	65	1080 *1	G¾ai	281A0321
58	-	27	87	1450	G¾	281ZH0311
58	12	27	87	1450	G¾ai	281ZH0321
65	-	30	181	3020 *1	G½	281A0411
64	15	30	181	3020 *1	G½ai	281A0421
65	-	30	206	3440	G½	281ZH0411
64	15	30	206	3440	G½ai	281ZH0421
76	-	30	244	4070 *1	G¾	281A0511
76	-	30	315	5250	G¾	281ZH0511
100	-	41	313	5220 *1	G1	281A0611
100	-	41	456	7600	G1	281ZH0611
130	-	70	775	12920 *1	G2	281A0911



281

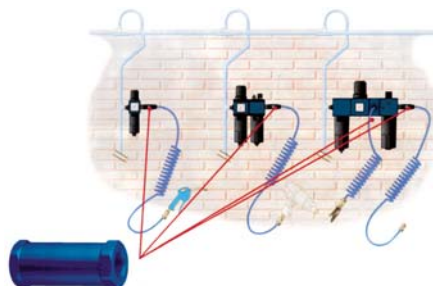
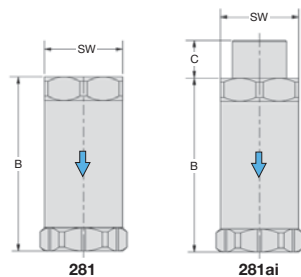


cross-section

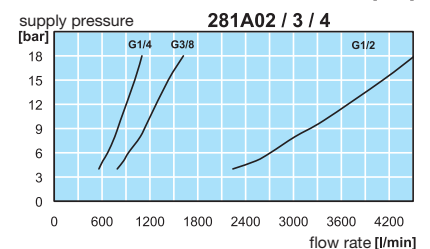
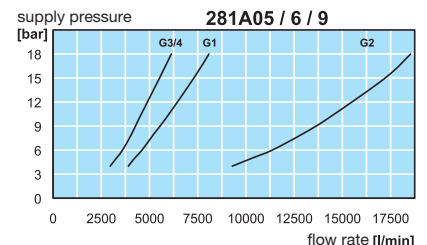
Special options, add the appropriate letter

- NPT** connection thread for standard version 281A1 . . .
- connection thread for Low-Flow version 281ZL1 . . .
- connection thread for High-Flow version 281ZH1 . . .
- 281R . . .

stainless steel body



application example



*1 Standard version

*2 volume flow measurement according to DIN EN60534 (± 10% for closing)