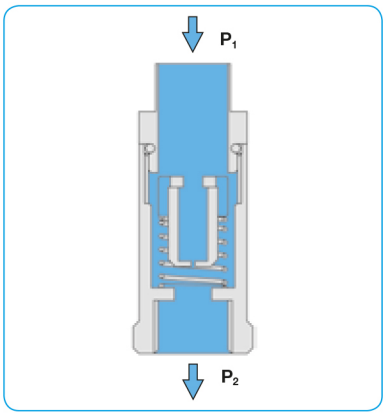
Description	Air supply is immediately shut off when volume flow exceeds a specific value. The maximum admissible flow is factory-set in such a way that a standard application of pneumatic equipment is ensured. Pressure drop amounts to 0.05 to 0.3 bar. In the case of failure, the hose rupture valve blows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

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

Dimensions B mm	C mm	A/F mm	max. flow rate at 8 bar *2 m³/h	l/min	Connection thread G	Order number
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	1 080 *1	G⅜	**281A0311**
58	12	27	65	1 080 *1	G⅜ai	**281A0321**
58	-	27	87	1 450	G⅜	**281ZH0311**
58	12	27	87	1 450	G⅜ai	**281ZH0321**
65	-	30	181	3 020 *1	G½	**281A0411**
64	15	30	181	3 020 *1	G½ai	**281A0421**
65	-	30	206	3 440	G½	**281ZH0411**
64	15	30	206	3 440	G½ai	**281ZH0421**
76	-	30	244	4 070 *1	G¾	**281A0511**
76	-	30	315	5 250	G¾	**281ZH0511**
100	-	41	313	5 220 *1	G1	**281A0611**
100	-	41	456	7 600	G1	**281ZH0611**
130	-	70	775	12 920 *1	G2	**281A0911**

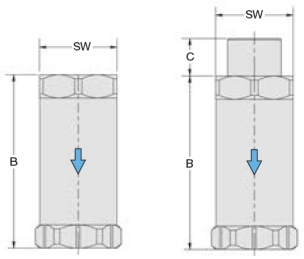
281



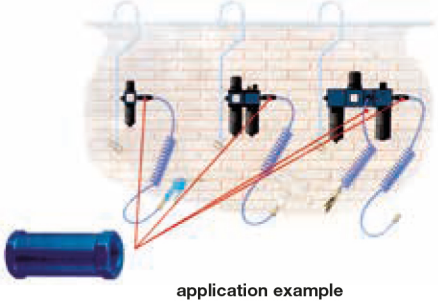
cross-section

Special options, add the appropriate letter

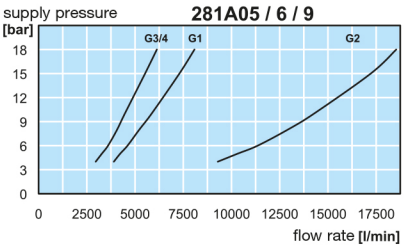
NPT	connection thread for standard version	281A**1** . . .
	connection thread for Low-Flow version	281ZL**1** . . .
	connection thread for High-Flow version	281ZH**1** . . .
stainless steel body		281**R** . . . .

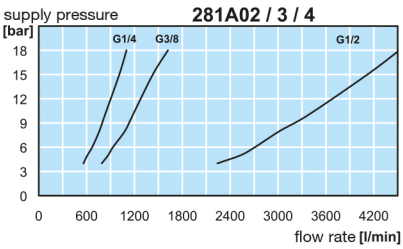


281 281ai



application example





*1 Standard version

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

PDF CAD
www.aircom.net

Order example:
281A0211