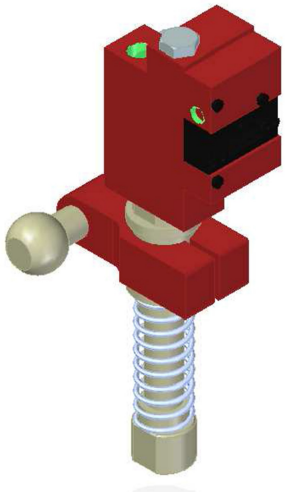
Datasheet

Vacuum Check Valve VT-1H Vacustat with COAX® with level compensator, G threads, Ball joint, Left hand connection

Item number: X6046



- Two-stage COAX® cartridge MINI Pi12-2 integrated.
- Check valve that traps vacuum in sealed applications for safe operation.
- Built-in blow off check valve for fast release of object.
- Integrated energy-saving device, Vacustat results in virtually no air consumption in sealed applications.
- Available in lock pin 16, 19 or ball joint mountings, industry standard.
- Available with level compensator to compensate for differences in level of object.
- Recommend using 4mm (5/32”) tubing and no more than 80 psi for blow off.
- Recommend using 6mm (1/4”) tubing and no more than 80 psi for vacuum.
- Equal line lengths from common manifold should be used for both blow-off and vacuum.
- Maximum of (12) units per tool.

Technical data

Description	Unit	Value
Material	-	Al, Ceramic, CuZn, Nitrile (NBR), PA, PP, SS, Steel
Load, vertical, max.	lbf	157.37
Temperature, max.	°F	176.0
Temperature, min.	°F	14.0
Weight, max.	oz	71.75
Weight, min.	oz	67.12
Feed pressure, max. (blow-off)	psi	0.080
Feed pressure, min. (breakaway blow-off)	psi	0.036
Noise level, max.	dBA	68
Noise level, min.	dBA	66
Vacuum flow, range, max.	scfm	1.44
Hysteresis	inHg	8
Life span (at max load)	cycles	10000000
Signal range, max.	-inHg	-19.19
Signal range, min.	-inHg	-13.29
Volume, internal (level compensator)	in^3	0.84
Action range	°	0-360
Action range/Stroke	in	1.97
Spring force, max.	lbf	14.99

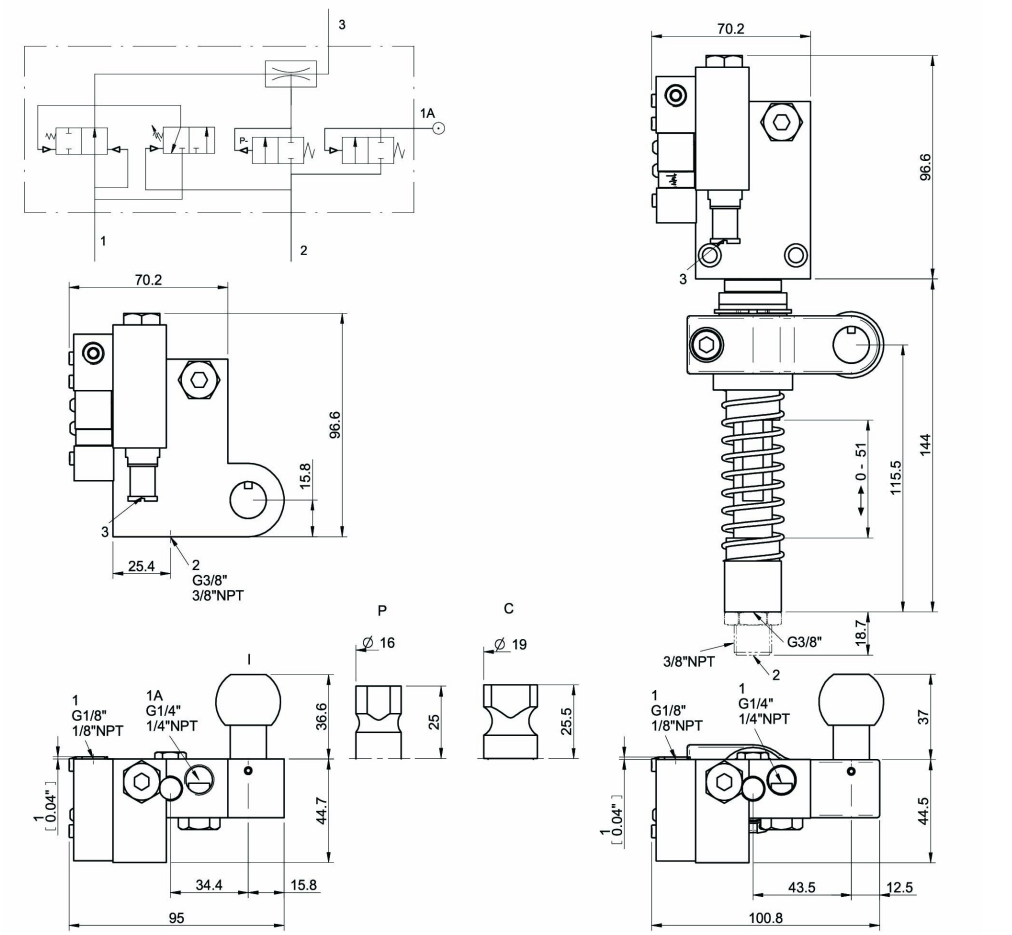
Performance

Feed pressure	Air consumption	Vacuum flow (scfm) at different vacuum levels (-inHg)													Max vacuum
psi	scfm	0	2	5	8	11	14	17	20	23	26	29	32	35	psi
24.65	0.61	0.17	0.12	0.065	0.044	0.021	0	0	0	0	0	0	0	0	≥7.10
31.90	0.72	0.19	0.14	0.086	0.059	0.041	0.024	0.0059	0	0	0	0	0	0	≥9.28
45.53	0.93	0.20	0.18	0.13	0.080	0.056	0.041	0.030	0.018	0	0.0089	0	0	0	≥13.050
58.0	1.12	0.19	0.18	0.15	0.12	0.071	0.035	0.030	0.018	0	0.0059	0	0	0	≥12.18

Feed pressure	Air consumption	Evacuation time (s/cf) to reach different vacuum levels (-inHg)												Max vacuum
psi	scfm	2	5	8	11	14	17	20	23	26	28	29	29	psi
24.65	0.61	0.083	0.17	0.33	0.63	0	0	0	0	0	0	0	0	≥7.10
31.90	0.72	0.059	0.12	0.25	0.44	0.68	0.89	0	0	0	0	0	0	≥9.28
45.53	0.93	0.050	0.094	0.17	0.32	0.53	0.80	1.18	1.89	0	0	0	0	≥13.050
58.0	1.12	0.053	0.097	0.16	0.25	0.44	0.74	1.12	2.097	0	0	0	0	≥12.18

Feed pressure	Air consumption	Blow flow (scfm) at different pressure levels (-inHg)															Max pressure
psi	scfm	0	2	5	8	11	14	17	20	23	26	29	32	35	38	41	psi
87.0	1.59	0.20	0.20	0.20	0.20	0.19	0.18	0.16	0.15	0.15	0.15	0.15	0.14	0.14	0.12	0.11	≥0

Dimensional drawings



Values specified in this datasheet are tested at (unless otherwise stated):

- Room temperature (20°C [68°F] ± 3°C [5.5°F]).
- Standard atmosphere (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg]).
- Compressed air quality, DIN ISO 8573-1 class 4.

Tolerance and accuracy:

- Feed pressure tolerance ±0.02 MPa [2.9 psi]
- Vacuum flow/evacuation time accuracy ±10%.