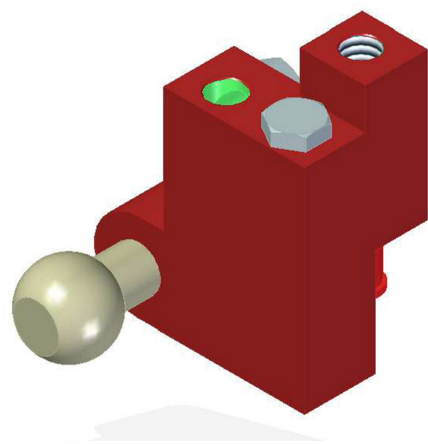


Vacuum Check Valve VT-1H COAX®, NPT threads, Ball joint, Left hand connection

Item number: 1045



- 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.
- 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
Temperature, max.	°F	176.0
Temperature, min.	°F	14.0
Weight, max.	oz	14.073
Weight, min.	oz	12.52
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
Life span (at max load)	cycles	10000000

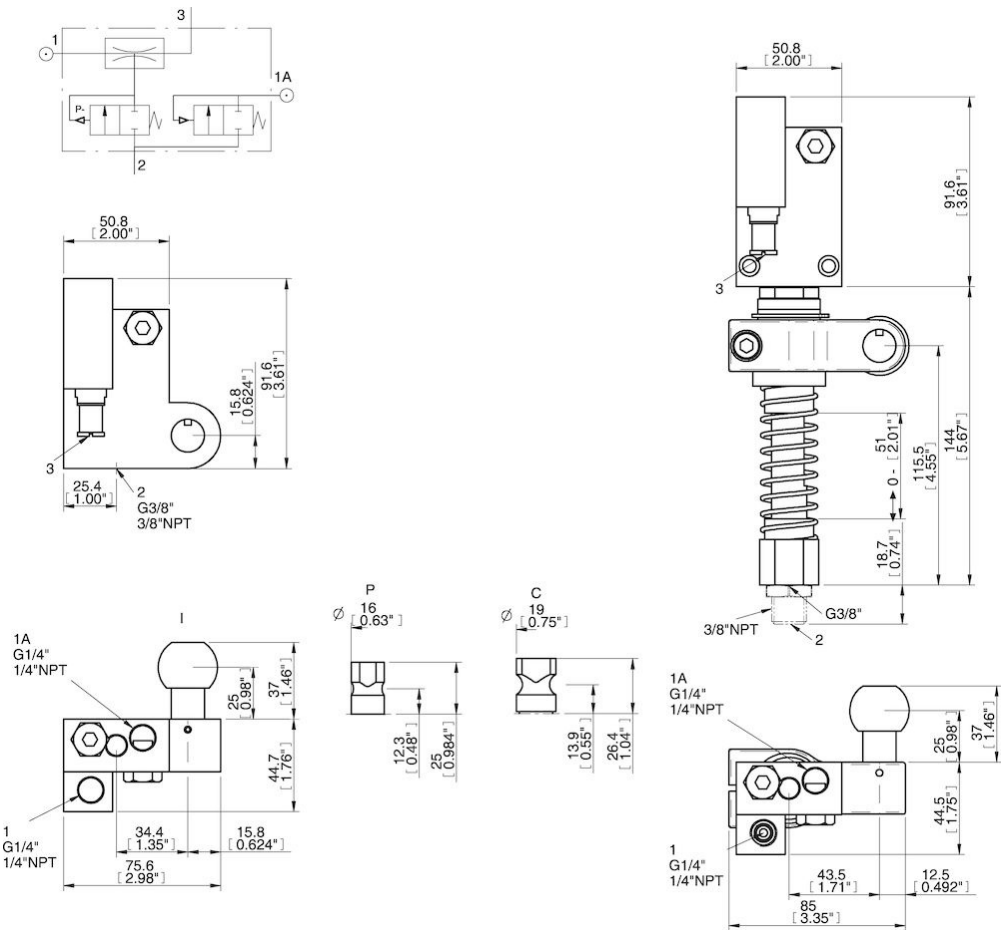
Performance

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 psi	Air consumption scfm	Evacuation time (s/cf) to reach different vacuum levels (-inHg)												Max vacuum psi
		2	5	8	11	14	17	20	23	26	28	29	29	
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%.