

Vacuum Check Valve VT-1H Vacustat with COAX® piab

Vacuum Check Valve VT-1H Vacustat with COAX®



FUNCTION ATTACHMENT

- 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.

Technical data

Description	Unit	Value
Feed pressure, max.	MPa	0.55
Feed pressure, min. breakaway blow-off	MPa	0.25
Noise level	dB(A)	66-68
Material		PP, PA, Al, SS, CuZn, NBR, Ceramic, Steel
Temperature range	°C	-10-80
Weight	g	558-602
Weight with level compensator	g	1074-1148
Volume, internal level compensator	cm ³	13.8
Max. load, vertical	N	700
Max. load, radial	N	700
Angular adjustability	°	0-360
Action range, stroke	mm	50
Signal range	-kPa	-45 / -65
Function		2/2 NO
Hysteresis	kPa	8
Vacuum flow, max.	NI/s	0.68
Spring force, max.	N	66.7

Operational lifetime: 10,000,000 cycles at max. load

Vacuum flow

Feed pressure*	Air consumption	Vacuum flow (NI/s) at different vacuum levels (-kPa)										Max vacuum
		0	10	20	30	40	50	60	70	80	-kPa	
0.17	0.29	0.57	0.40	0.22	0.15	0.070	—	—	—	—	—	49

0.22	0.34	0.64	0.48	0.29	0.20	0.14	0.080	0.020	—	—	64
0.314	0.44	0.68	0.60	0.44	0.27	0.19	0.14	0.10	0.060	0.030	90
0.40	0.53	0.66	0.60	0.52	0.39	0.24	0.12	0.10	0.060	0.020	84
*Feed pressure tolerance, +/- 0.01 MPa											

Evacuation time											
Feed pressure*	Air consumption	Evacuation time (s/l) to reach different vacuum levels (-kPa)									Max vacuum
		MPa	NI/s	10	20	30	40	50	60	70	
0.17	0.29	0.28	0.56	1.13	2.13	—	—	—	—	—	49
0.22	0.34	0.20	0.42	0.85	1.5	2.3	3.0	—	—	—	64
0.314	0.44	0.17	0.32	0.58	1.1	1.8	2.7	4.0	6.4	—	90
0.40	0.53	0.18	0.33	0.54	0.85	1.5	2.5	3.8	7.1	—	84
*Feed pressure tolerance, +/- 0.01 MPa											

Ordering information, Vacuum Check Valve VT-1H Vacustat COAX® with PMAT connection							
Vacuum Check Valve VT-1H COAX® G threads		Left hand connection			Right hand connection		
		Lock pin 16	Lock pin 19	Ball joint	Lock pin 16	Lock pin 19	Ball joint
		Art. No. PMAT No.	Art. No. PMAT No.	Art. No. PMAT No.	Art. No. PMAT No.	Art. No. PMAT No.	Art. No. PMAT No.
A	Vacuum Check Valve VT-1H COAX®	0120994	0120995	0119676	0121008	0121013	0121019
		X1071	X1073	X1072	X1071RH	X1073RH	X1072RH
A	Vacuum Check Valve VT-1H COAX® with LCS*	0120996	0120998	0120997	0121011	0121016	0121022
		X6041	X6045	X6046	X6041RH	X6045RH	X6046RH
*With level compensator LCS.							

Vacuum Check Valve VT-1H Vacustat COAX® - NPT threads	Part No. - Left hand connection	Part No. - Right hand connection
	Ball joint	Ball joint
B Vacuum Check Valve VT-1H Vacustat COAX®	1072	1072RH

Ordering information	
1. Rod extension	PMAT Code
Rod Extension 50 length	AA
Rod Extension 100 length	AB
Rod Extension 150 length	AC
2. Bar mounting style	PMAT Code
Bar clamp, clamp-on 25 mm	00
Bar clamp, slide-on 25 mm	01
Bar clamp, slide-on 1", pin 16	02
Bar clamp, slide-on 1", pin 19	14
Bar clamp, slide-on 1", ball joint	04
3. Swivel style	PMAT Code
Pin 16	P
Pin 19	C
Ball joint	I
4. Function attachment	PMAT Code
Vacuum Check Valve VT-1H, Vacustat COAX® cartridge MINI Pi12-2, G conn., left hand	XEA
Vacuum Check Valve VT-1H, Vacustat COAX® cartridge MINI Pi12-2, G conn., right hand	XEARH
Vacuum Check Valve VT-1H, Vacustat COAX® cartridge MINI Pi12-2, G, left hand with level comp. LCS200	XBTF
Vacuum Check Valve VT-1H, Vacustat COAX® cartridge MINI Pi12-2, G, right hand with level comp. LCS200	XBTFRH
Vacuum Check Valve VT-1H, Vacustat COAX® cartridge Mini Pi12-2, NPT conn., left hand, Ball joint	EA
Vacuum Check Valve VT-1H, Vacustat COAX® cartridge Mini Pi12-2, NPT conn., right hand, Ball joint	EARH
Example	Ordering number
PMAT with rod extension 50, bar clamp slide-on 25 mm, pin 16 swivel style, Vacuum Check Valve VT-1H Vacustat COAX® cartridge MINI Pi12-2, non-return valve, G conn., left hand	PMAT AA 01 P XEA