



Overview

- VU series are used in any type of hydraulic circuit
- Alternative uses: as pressure sequence valve by adjusting the internal spring loading to the required cracking point, according to the valve size

Instructions for Use

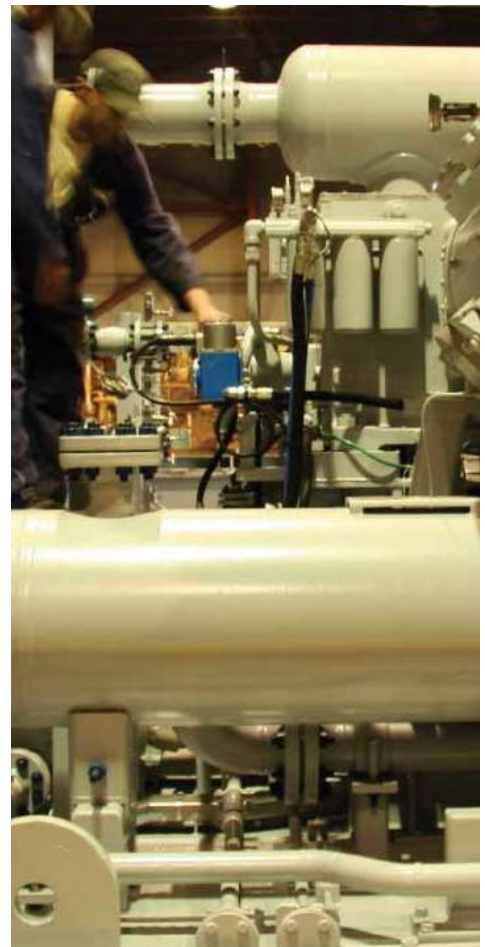
The VU series must be assembled in the circuit so that the direction of the flow corresponds to the direction of the arrow marked on the valve.

Check Valves: VU Series

Series: VU

The Stucchi check valve design is safe, compact and suitable to any hydraulic application using non-corrosive liquids. The VU size-range includes two different standard openings at 5 to 65 psi.

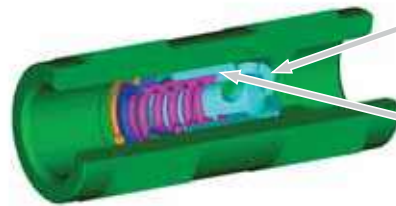
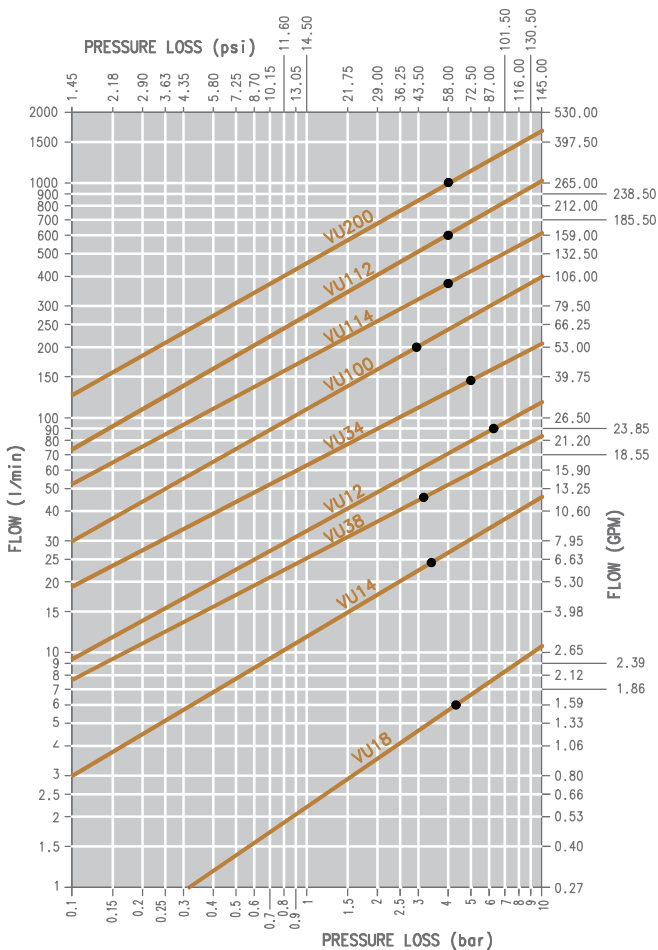
- Material: steel with black phosphate
- Closing spring in C72 material
- Standard Crack 5 psi and 65 psi
- Standard SAE and NPT threads
- Various crack pressures optional
- Central exhausting hole option
- Zinc plating available upon request



VU Series Check Valves

DESCRIPTION	SIZE	MAX SUGGESTED FLOW		MAX OPERATING PRESSURE		BURST PRESSURE	
	Inch	l/min	GPM	MPa	psi	MPa	psi
VU18	1/8	6	1.59	40	5800	160	23200
VU14	1/4	24	6.36	35	5075	140	20300
VU38	3/8	46	12.19	35	5075	140	20300
VU12	1/2	90	23.85	30	4350	120	17400
VU34	3/4	148	39.22	30	4350	120	17400
VU100	1	200	53	30	4350	120	17400
VU114	1 1/4	378	100.17	25	3625	100	14500
VU112	1 1/2	600	159	25	3625	100	14500
VU200	2	1000	265	15	2175	45	6525

TEMPERATURE RANGE: FROM -20 °C (-4 °F) TO 120 °C (248 °F)

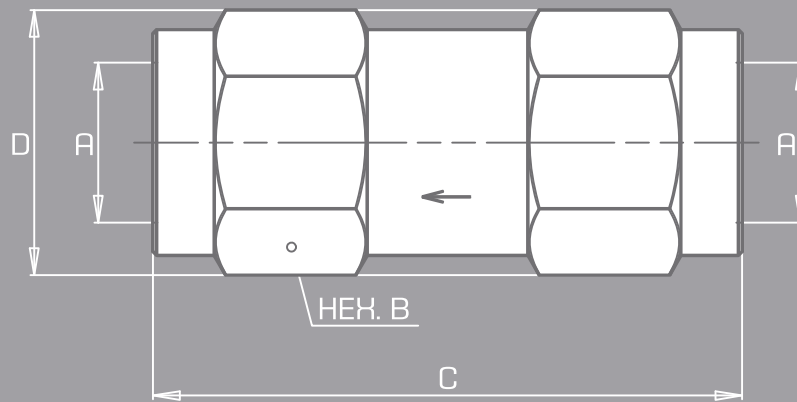


Metal to metal sealing avoids seal extrusion at high flow rates

Sealing Piston hardened with heat treatment



Check Valves: VU Series Size Diagram



DESCRIPTION	A	B		C		D		WEIGHT	
		mm	inch	mm	inch	mm	inch	Kg	lb
VU18	1/8	14.0	0.55	44.0	1.73	16.2	0.64	0.038	0.08
VU14	1/4	19.0	0.75	60.0	2.36	21.9	0.86	0.090	0.20
VU38	3/8	24.0	0.94	70.0	2.76	27.7	1.09	0.185	0.41
VU12	1/2	30.0	1.18	77.0	3.03	34.6	1.36	0.303	0.67
VU34	3/4	36.0	1.42	90.0	3.54	41.6	1.64	0.499	1.10
VU100	1	45.0	1.77	106.0	4.17	52.0	2.05	0.901	1.99
VU114	1 1/4	55.0	2.17	125.0	4.92	63.5	2.50	1.513	3.34
VU112	1 1/2	65.0	2.56	140.0	5.51	75.1	2.96	2.430	5.36
VU200	2	75.0	2.95	160.0	6.30	86.6	3.41	3.130	6.90

VU Series Check Valves



VU NPT and SAE Thread Check Valves

CRACK POINT	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE BLACK OXIDE	ORDER CODE YELLOW ZINC	PART DESCRIPTION
VU NPT THREAD						
5 psi	1/8	1/8	NPT	810201100	810501100	VU 18 NPT 5 PSI
5 psi	1/4	1/4	NPT	810201101	810501101	VU 14 NPT 5 PSI
5 psi	3/8	3/8	NPT	810201102	810501102	VU 38 NPT 5 PSI
5 psi	1/2	1/2	NPT	810201103	810501103	VU 12 NPT 5 PSI
5 psi	3/4	3/4	NPT	810201104	810501104	VU 34 NPT 5 PSI
5 psi	1	1	NPT	810201105	810501105	VU 100 NPT 5 PSI
5 psi	1 1/4	1 1/4	NPT	810201106	810501106	VU 114 NPT 5 PSI
5 psi	1 1/2	1 1/2	NPT	810201107	810501107	VU 112 NPT 5 PSI
5 psi	2	2	NPT	810201108	810501108	VU 200 NPT 5 PSI
5 psi	3/4	3/4	NPT	810201109	810501109*	VU 34F 1.5 NPT 5 PSI
5 psi	1	1	NPT	810201110	810501110*	VU 100F 1.5 NPT 5 PSI
5 psi	1/2	1/2	NPT	810201112	810501112*	VU 12EI NPT 5 PSI**
65 psi	1/8	1/8	NPT	810201400	810501400	VU 18 NPT 65 PSI
65 psi	1/4	1/4	NPT	810201401	810501401	VU 14 NPT 65 PSI
65 psi	3/8	3/8	NPT	810201402	810501402	VU 38 NPT 65 PSI
65 psi	1/2	1/2	NPT	810201403	810501403	VU 12 NPT 65 PSI
65 psi	3/4	3/4	NPT	810201404	810501404	VU 34 NPT 65 PSI
65 psi	1	1	NPT	810201405	810501405	VU 100 NPT 65 PSI
65 psi	1 1/4	1 1/4	NPT	810201406	810501406	VU 114 NPT 65 PSI
65 psi	1 1/2	1 1/2	NPT	810201407	810501407	VU 112 NPT 65 PSI
65 psi	2	2	NPT	810201408	810501408	VU 200 NPT 65 PSI
VU SAE THREAD						
5 psi	1/4	1/4	SAE	810204100	810504100	VU 14 SAE 5 PSI
5 psi	3/8	3/8	SAE	810204101	810504101	VU 38 SAE 5 PSI
5 psi	1/2	1/2	SAE	810204102	810504102	VU 12 SAE 5 PSI
5 psi	3/4	3/4	SAE	810204103	810504103	VU 34 SAE 5 PSI
5 psi	1	1	SAE	810204104	810504104	VU 100 SAE 5 PSI
5 psi	1 1/4	1 1/4	SAE	810204105	810504105	VU 114 SAE 5 PSI
5 psi	1 1/2	1 1/2	SAE	810204106	810504106	VU 112 SAE 5 PSI
5 psi	2	2	SAE	810204107	810504107	VU 200 SAE 5 PSI
65 psi	1/4	1/4	SAE	810204400	810504400	VU 14 SAE 65 PSI
65 psi	3/8	3/8	SAE	810204401	810504401	VU 38 SAE 65 PSI
65 psi	1/2	1/2	SAE	810204402	810504402	VU 12 SAE 65 PSI
65 psi	3/4	3/4	SAE	810204403	810504403	VU 34 SAE 65 PSI
65 psi	1	1	SAE	810204404	810504400	VU 100 SAE 65 PSI
65 psi	1 1/4	1 1/4	SAE	810204405	810504405	VU 114 SAE 65 PSI
65 psi	1 1/2	1 1/2	SAE	810204406	810504406	VU 112 SAE 65 PSI
65 psi	2	2	SAE	810204407	810504407	VU 200 SAE 65 PSI

*AVAILABLE UPON SPECIAL REQUEST.

**FEMALE X MALE NPT



VU NPT Thread Check Valves

CRACK POINT	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE:	PART DESCRIPTION
VU NPT THREAD					
14 psi	1/4	1/4	NPT	810201200	VU 14 NPT 14 PSI
14 psi	1/2	1/2	NPT	810201201	VU 12 NPT 14 PSI
14 psi	3/4	3/4	NPT	810201202	VU 34 NPT 14 PSI
14 psi	1	1	NPT	810201203	VU 100 NPT 14 PSI
14 psi	1 1/4	1 1/4	NPT	810201204	VU 114 NPT 14 PSI
14 psi	1 1/2	1 1/2	NPT	810201205	VU 112 NPT 14 PSI
21 psi	1	1	NPT	810201300	VU 100 NPT 21 PSI
57 psi	1/2	1/2	NPT	810201409	VU 12 NPT 57 PSI
115 psi	1/2	1/2	NPT	810201600	VU 12 NPT 115 PSI
115 psi	3/4	3/4	NPT	810201601	VU 34 NPT 115 PSI
145 psi	1	1	NPT	810201602	VU 100 NPT 145 PSI
215 psi	1/4	1/4	NPT	810201700	VU 14 NPT 215 PSI
290 psi	1/2	1/2	NPT	810201701	VU 12 NPT 290 PSI



VUS NPT Thread Soft Seat Check Valves

CRACK POINT	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE:	PART DESCRIPTION
VUS NPT THREAD					
5 psi	3/4	3/4	NPT	810701100	VUS34 NPT 5 PSI SOFT SEAT
50 psi	3/4	1	NPT	810201400	VUS100 NPT 50 PSI SOFT SEAT

