



# VU

## Standard check valves.

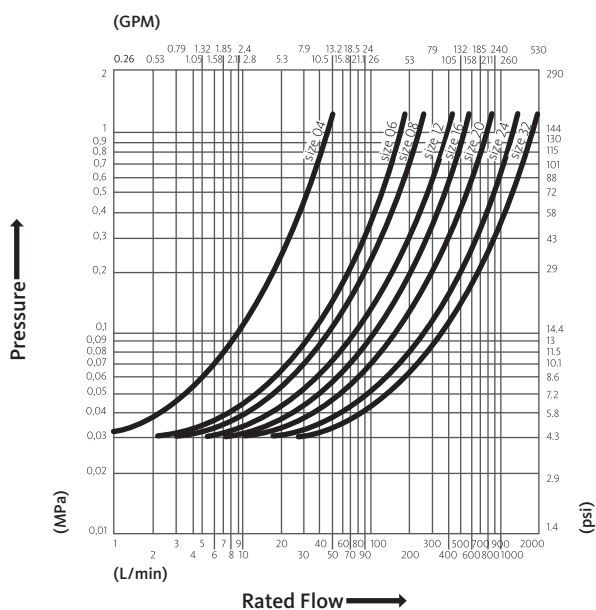
Check valves acting as a safety device into hydraulic systems. Standard versions contain a spring set to open the valve at 35 KPa; the range of settings is wide (up to 950 kPa). Normally available with inlet and outlet female threads.



## Applications



## Pressure Drop



Data shown in the diagram are indicative and not blinding

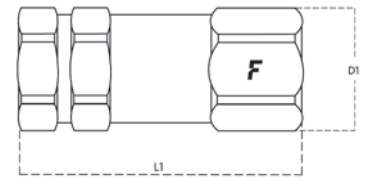
1 MPa = 10 bar

## Technical Specifications

dash	Size mm	inch	Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa)		
							Male	Female	Male + Female
04	6.3	1/4"	50	17				200	
06	10	3/8"	27	30				110	
08	12.5	1/2"	35	90				140	
12	20	3/4"	25	140				100	
16	25	1"	25	200				100	
20	31.5	1-1/4"	25	300				100	
24	37.5	1-1/2"	20	500				80	
32	50	2"	13	700				52	

Material	<b>Steel</b>
Seals	<b>NBR</b>
Working temperatures	<b>- 25 °C to + 125 °C</b>
Surface treatment	<b>MATE 500 (CrIII)</b>
Series Interchange	

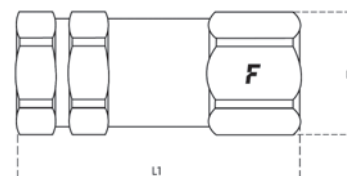
Valve Type	<b>Poppet</b>
Connection	
Disconnection	
Connection Under Pressure	



Thread details in the first line are referred to Thread 1, thread details in the second line are referred to Thread 2 - outlet.

Size		Thread details			Part Number	L (L1 + Thread)		D1		HEX1		Pressure
mm	inch	Thread Type	Standard	Thread		mm	inch	mm	inch	mm	inch	Cracking Pressure
6.3	1/4"	27/ SAE	ISO 8434-3	9/16"-18 UNF FEMALE	VUS27/CS11/CSBS	54	2.13	19	0.75	17	0.67	50 kPa
		11/ SAE	ISO 8434-3	9/16" – 18 UNF MALE								
6.3	1/4"	27/ SAE	ISO 8434-3	9/16"-18 UNF FEMALE	VUJ27/CS11/CSBS *	54	2.13	19	0.75	17	0.67	50 kPa
		11/ SAE	ISO 8434-3	9/16" – 18 UNF MALE								
6.3	1/4"	16/ BSPP	ISO 8434-6	60° 1/4 BSPP MALE	VU14M 14M	50	1.97	24.5	0.96	22	0.87	35 kPa
6.3	1/4"	F NPTF	ANSI B1.20.3	NPTF 1/4" FEMALE	VU14FN 14FN	50	1.97	21	0.83	19	0.75	35 kPa
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	VU14F 14F C	50	1.97	21	0.83	19	0.75	100 kPa
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	VU14F 14F B	50	1.97	21	0.83	19	0.75	50 kPa
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	VU14F 14F A2	50	1.97	21	0.83	19	0.75	20 kPa
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	VU14F 14F	50	1.97	21	0.83	19	0.75	35 kPa
10	3/8"	16/ BSPP	ISO 8434-6	60° 3/8 BSPP MALE	VU38M 38M V	50	1.97	24.5	0.96	22	0.87	35 kPa
10	3/8"	16/ BSPP	ISO 8434-6	60° 3/8 BSPP MALE	VU38M 38M	50	1.97	24.5	0.96	22	0.87	35 kPa
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	VU38FN 38MN	58.1	2.29	24.5	0.96	22	0.87	35 kPa
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	VU38FN 38FN	60	2.36	27	1.06	24	0.94	35 kPa
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	VU38F 38F B	60	2.36	27	1.06	24	0.94	50 kPa
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	VU38F 38F	60	2.36	27	1.06	24	0.94	35 kPa
12.5	1/2"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	VU41/FS-11/HS I	63.5	2.5	30	1.18	27	1.06	400 kPa
12.5	1/2"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	VU41/FS-11/HS E	63.5	2.5	30	1.18	27	1.06	200 kPa
12.5	1/2"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	VU41/FS-11/HS C	63.5	2.5	30	1.18	27	1.06	100 kPa
12.5	1/2"	35/ SAE	ISO 8434-3	13/16"-16 UN FEMALE ORFS	VU27/FS-11/FS B	59.5	2.34	30	1.18	27	1.06	50 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	1/2" BSPP MALE	VU21/DG-11/HS I	64.6	2.54	30	1.18	27	1.06	400 kPa
12.5	1/2"	02/ METRIC	ISO 8434-1-L	M22x1.5 MALE 15L	VU2/FM-3/GM	120	4.72	30	1.18	27	1.06	35 kPa
12.5	1/2"	02/ METRIC	ISO 8434-1-L	M18x1.5 MALE 12L	VU2/DM-2/DM H	52.4	2.06	30	1.18	27	1.06	350 kPa
12.5	1/2"	13/ SAE	ISO 8434-2	7/8"-14 UNF MALE JIC	VU13/GS-1/GS H	66.7	2.63	30	1.18	27	1.06	350 kPa
12.5	1/2"	13/ SAE	ISO 8434-2	3/4"-16 UNF MALE JIC	VU13/FS-28/FS B	64	2.52	30	1.18	27	1.06	50 kPa
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	VU12M 12M M	56	2.2	30	1.18	27	1.06	500 kPa
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	VU12FN 12FN M	70	2.76	30	1.18	27	1.06	500 kPa
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	VU12FN 12FN	70	2.76	30	1.18	27	1.06	35 kPa
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	VU12F 12F M	70	2.76	30	1.18	27	1.06	500 kPa
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	VU12F 12F C	70	2.76	30	1.18	27	1.06	100 kPa
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	VU12F 12F B	70	2.76	30	1.18	27	1.06	50 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	3/8" BSPP MALE	VU1/CG-11/HS I	62.6	2.46	30	1.18	27	1.06	400 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	3/8" BSPP MALE	VU1/CG-11/HS G	62.6	2.46	30	1.18	27	1.06	300 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	3/8" BSPP MALE	VU1/CG-11/HS E	62.6	2.46	30	1.18	27	1.06	200 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	3/8" BSPP MALE	VU1/CG-11/HS C	62.6	2.46	30	1.18	27	1.06	100 kPa
12.5	1/2"	16/ BSPP	ISO 8434-6	60° 1/2 BSPP MALE	VU12M 12M	56	2.2	30	1.18	27	1.06	35 kPa
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	VU12F 12F	70	2.76	30	1.18	27	1.06	35 kPa
20	3/4"	01/ SAE	ISO 11926-3	7/8"-14 UNF MALE	VU41/GS-11/GS I	70.3	2.77	42	1.65	38	1.5	400 kPa
20	3/4"	0/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	VU34FS 34FS	88	3.46	40	1.57	36	1.42	35 kPa
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	VU34FN 34FN M	86	3.39	38	1.5	34	1.34	500 kPa
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	VU34FN 34FN	86	3.39	38	1.5	34	1.34	35 kPa
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	VU34F 34F V	86	3.39	38	1.5	34	1.34	35 kPa
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	VU34F 34F B	86	3.39	38	1.5	34	1.34	50 kPa

# VU



Thread details in the first line are referred to Thread 1, thread details in the second line are referred to Thread 2 - outlet.

Size		Thread details			Part Number	L (L1 + Thread)		D1		HEX1		Pressure
mm	inch	Thread Type	Standard	Thread		mm	inch	mm	inch	mm	inch	Cracking Pressure
20	3/4"	02/ METRIC	ISO 8434-1-L	M26x1.5 MALE 18L	VU2/HM-2/HM H	58.4	2.3	42	1.65	38	1.5	350 kPa
20	3/4"	01/ SAE	ISO 11926-3	1-1/16"-12 UN MALE	VU1/HS-11/LS P	70	2.76	42	1.65	38	1.5	600 kPa
20	3/4"	01/ SAE	ISO 11926-3	1-1/16"-12 UN MALE	VU1/HS-11/LS G	70	2.76	42	1.65	38	1.5	300 kPa
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	VU34F 34F	86	3.39	38	1.5	34	1.34	35 kPa
25	1"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	VU 1FN 1FN	100	3.94	44	1.73	41	1.61	35 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F U	100	3.94	44	1.73	41	1.61	800 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F M	100	3.94	44	1.73	41	1.61	500 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F L	100	3.94	44	1.73	41	1.61	450 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F G	100	3.94	44	1.73	41	1.61	300 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F E	100	3.94	44	1.73	41	1.61	200 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F B	100	3.94	44	1.73	41	1.61	50 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F	100	3.94	44	1.73	41	1.61	35 kPa
31.5	1-1/4"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	VU114FN 114FN L	130	5.12	55	2.17	50	1.97	450 kPa
31.5	1-1/4"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	VU114FN 114FN	130	5.12	55	2.17	50	1.97	35 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F M	130	5.12	55	2.17	50	1.97	500 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F E	130	5.12	55	2.17	50	1.97	200 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F C	130	5.12	55	2.17	50	1.97	100 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F	130	5.12	55	2.17	50	1.97	35 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F B	130	5.12	55	2.17	50	1.97	50 kPa
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	VU112F 112F U	145	5.71	66	2.6	60	2.36	800 kPa
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	VU112F 112F I	145	5.71	66	2.6	60	2.36	400 kPa
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	VU112F 112F	145	5.71	66	2.6	60	2.36	35 kPa
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	VU112F 112F M	145	5.71	66	2.6	60	2.36	500 kPa
50	2"	F BSPP	ISO 1179-1	BSPP 2" FEMALE	VU 2F 2F I	160	6.3	90	3.54	75	2.95	400 kPa
50	2"	F BSPP	ISO 1179-1	BSPP 2" FEMALE	VU 2F 2F C	160	6.3	90	3.54	75	2.95	100 kPa
50	2"	F BSPP	ISO 1179-1	BSPP 2" FEMALE	VU 2F 2F	160	6.3	90	3.54	75	2.95	35 kPa

\* O-ring for ORFS outlet adaptor (Faster code 11/..) is in NBR, hardness 90° Shore A.  
Part number ending in V have seals in FKM and consequently a Working Temperature of -20 °C + 200 °C.

