Product Information

2/2-way drain valve, DN 40, vacuum controlled

Series 04.040.115



A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Characteristics

- Direct acting
- Vacuum controlled
- Optional PVDF valve housing and FKM membrane for improved chemical resistance
- Long term performance capability
- Max. medium temperature 90 °C
- Works from zero pressure
- Suitable for spray- and jet water
- High operating safety through the use of high quality materials and 100% final testing of the products

Applications

- Industrial washing machines and dishwashers
- Cleaning devices for medical equipment
- Cleaning and disinfecting systems in the dairy industry and process engineering

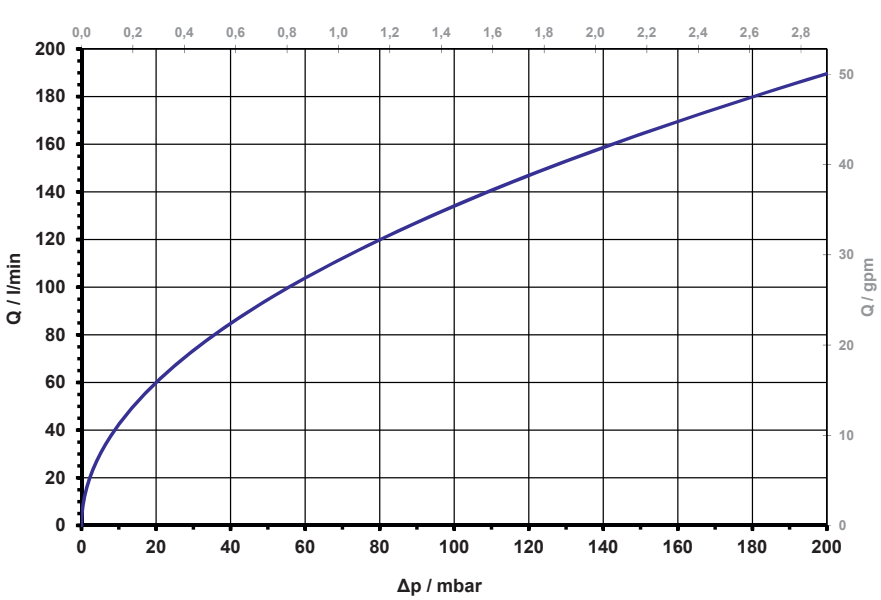
Description

2/2-way direct acting drain valve of nominal diameter DN 40 for controlling low aggressive liquid media, such as cleaning or disinfection agents.

Valves of this type are medium separated, having a single chamber valve body with the inlet at ninety degrees to the outlet. They are equipped with threaded or hose connections.

The valve housing made of PPE is suitable for hot water and exhibits a good chemical resistance, , notably against alkaline cleaning solutions.
The smooth internal shape improves liquid flow and avoids dirt traps. The valve bodies can be equipped with an additional flush spout.

typical performance curve

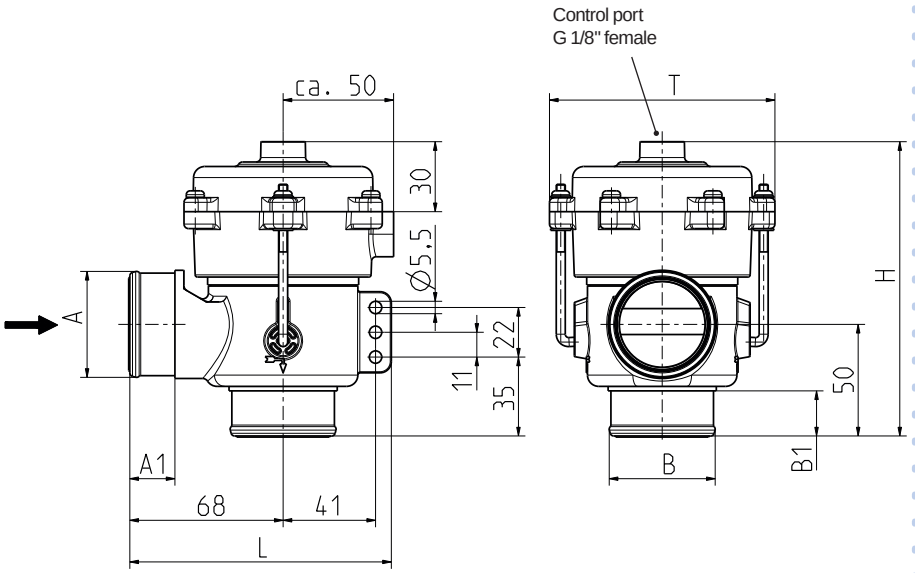


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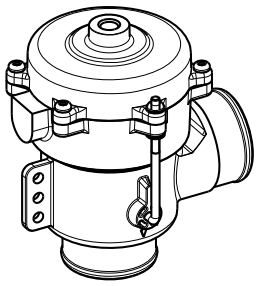
Technical Data

Type	drain valve, vacuum controlled	
Construction	2/2-way, single chamber angle valve, direct acting	
Function	NC (closed without applying vacuum)	
Fitting position	any, preferably with coil upwardly	
Media	low aggressive media, such as cleaning or disinfection agents in water	
T-Medium	90	°C max.
T-Ambient	50	°C max.
DN	40	mm
p-Operating	0 - 200	mbar max.
Control vacuum	10 - 80	kPa abs
	-0,2 - -0,9	bar rel.

Materials

Valve body	PPE, PVDF on request
Control chamber	PPE
Membrane and sealings	EPDM FKM on request

10 - 80 kPa abs



To prevent moisture entries in the vacuum chamber, appropriate measures should be provided.

Options

ID	Material	Ø A	A1	Ø B	B1	L	H	T
87170	PPE	G 1 1/2	21	G 1 1/2	21	117	130	100
87171		Tülle 1 1/2"		G 1 1/2				
87172		G 1 1/2		Tülle 1 1/2"				
87173		Tülle 1 1/2"		Tülle 1 1/2"				

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International vacuum/pressure conversion table

Unit	bar	N/cm²	kPa	atm., kp/cm², m H2O	Torr, mm Hg	psi
bar	1	10	100	1,0197	750,06	14,5
N/cm²	0,1	1	10	0,1019	75,006	1,45
kPa	0,01	0,1	1	0,0102	7,5006	0,145
atm., kp/cm²; m H2O	0,9807	9,807	98,07	1	735,56	14,22
Torr, mm Hg	0,00133	0,0133	0,1333	0,00136	1	0,0193
psi(a)	0,0689	0,6896	6,896	0,0703	51,68	1

International vacuum/ pressure conversion table comparing absolute and relative values

Relative vacuum	Residual pressure absolute		Relative pressure					
%	kPa	bar	bar	N/cm²	kPa	atm., kp/cm², m H2O	Torr, mm Hg	psi
10	90	0,9	-0,101	-1,01	-10,1	-0,1	-76	-1,47
20	80	0,8	-0,203	-2,03	-20,3	-0,2	-152	-2,94
30	70	0,7	-0,304	-3,04	-30,4	-0,3	-228	-4,41
40	60	0,6	-0,405	-4,05	-40,5	-0,4	-304	-5,88
50	50	0,5	-0,507	-5,07	-50,7	-0,5	-380	-7,35
60	40	0,4	-0,608	-6,08	-60,8	-0,6	-456	-8,82
70	30	0,3	-0,709	-7,09	-70,9	-0,7	-532	-10,28
80	20	0,2	-0,811	-8,11	-81,1	-0,8	-608	-11,75
90	10	0,1	-0,912	-9,12	-91,2	-0,9	-684	-13,22

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