Product Information

3/2-way drain valve, DN 40, vacuum controlled

Series 04.040.114



Description

3/2-way direct acting dump valve of nominal diameter DN 40 for controlling low aggressive media, such as cleaning or disinfection agents.

Valves of this type have a medium separated control pressure chamber and can be manufactured in various materials equipped with threaded or hose connections.

The valve with valve body made of PPE, is suitable for water of higher temperature and chemically resistant.

By using high quality insulation materials, continuous duty at higher medium temperatures is possible.

Applications

- industrial washing machines and dishwashers
- cleaning devices for medical equipment
- cleaning and disinfection systems in the dairy industry and process engineering

A.u.K. Müller

Solenoid valves
Control valves
Special valves and systems

A.u.K. Müller GmbH & Co. KG
Dresdener Str. 162
D-40595 Düsseldorf/Germany

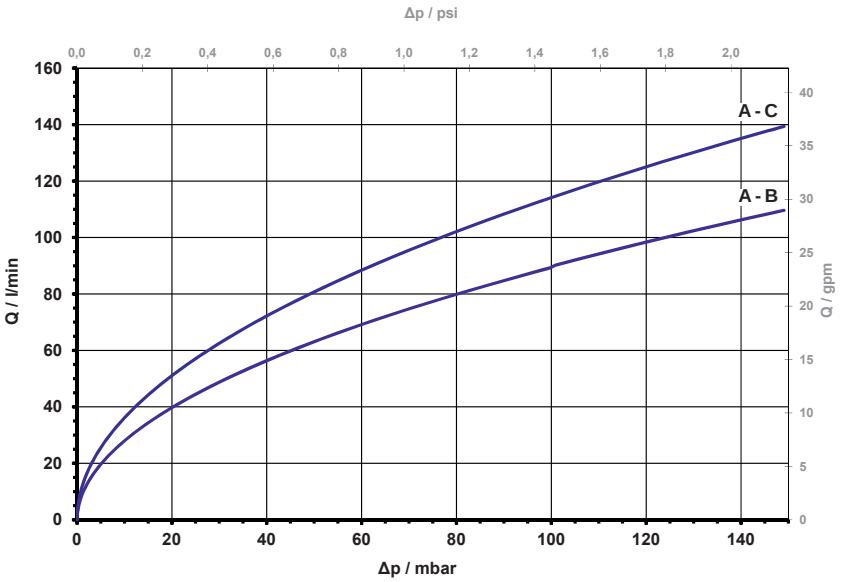
Tel.: +49(0)211-7391-0
Fax: +49(0)211-7391-281

e-mail: info@akmueller.de
Internet: www.akmueller.de

Characteristics

- direct acting
- vacuum controlled
- Optional PVDF valve body
- long term performance capability
- max. medium temperature 90°C
- no minimum pressure required
- suitable for spray- and jet water
- high operating safety through the use of high quality materials and 100% final testing of the products

typical performance curve

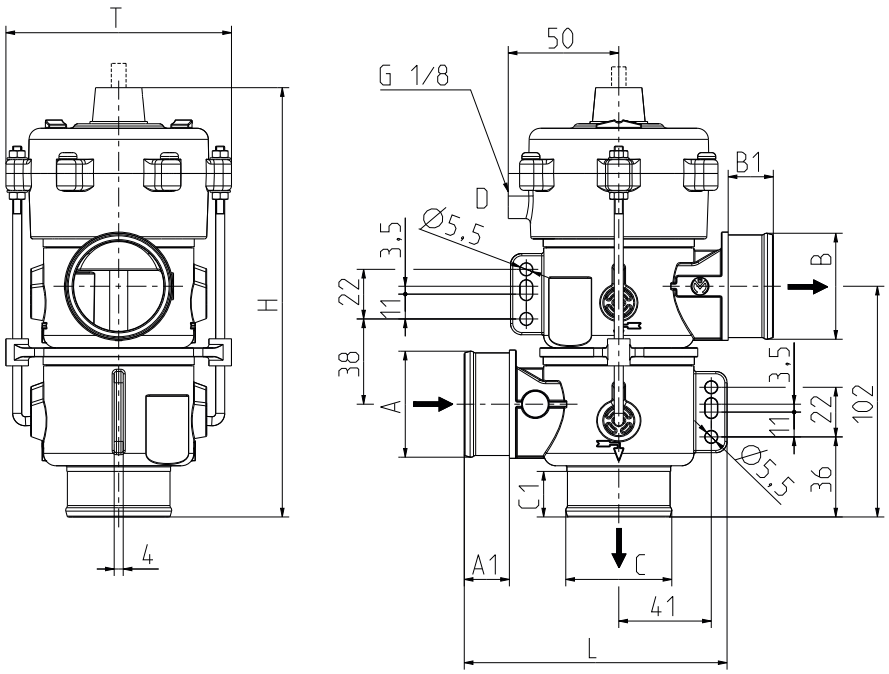


© copyright A.u.K. Müller, technical changes reserved

3/2-way drain valve, DN 40, vacuum controlled

A.u.K. Müller

Series 04.040.114

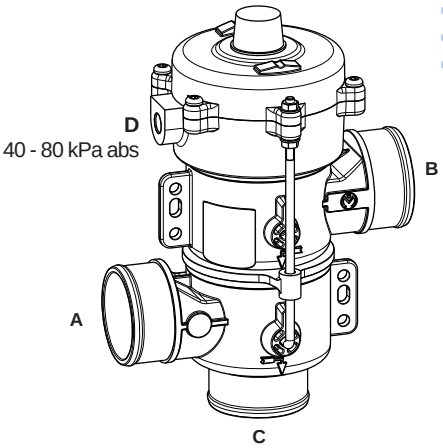


Technical Data

Type	drain valve, vacuum controlled	
Construction	2-chamber valve, direct acting, 3/2-way	
Fitting position	any, preferably 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 - 150	mbar max.
Control vacuum (D)	40 - 80 - 0,2 - -0,6	kPa abs bar rel.

Materials

Valve body	PPE, PVDF, stainless steel on request
Control chamber	PPE
Plunger guide	stainless steel
Plunger	stainless steel
Sealings	EPDM FKM, NBR on request



D - inactive	A - C A - B	open closed
D - active	A - C A - B	closed open

Control port **D** can be rotated by 180° to direction **B** on request.

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

Options

ID	Material							Length	Height	Depth
		Ø A	A1	Ø B	B1	C	C1	L	H	T
51464	PPE	G 1 1/2	21	G 1 1/2	21	G 1 1/2	21	117	190	100
51572		nozzle 1 1/2”		nozzle 1 1/2”	21	G 1 1/2				
auf Anfrage		G 1 1/2		G 1 1/2	21	nozzle1 1/2”				
51465		nozzle 1 1/2"		nozzle1 1/2”	21	nozzle1 1/2”				

Emergency manual override on request.

 © copyright A.u.K. Müller, technical changes reserved

Series 04.040.114

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

© copyright A.u.K. Müller, technical changes reserved

Series 04.040.114

Solenoid valves
Control valves
Special valves and systems

A.u.K. Müller GmbH & Co. KG
Dresdener Str. 162
D-40595 Düsseldorf/Germany

Tel.: +49(0)211-7391-0
Fax: +49(0)211-7391-281

e-mail: info@akmueller.de
Internet: www.akmueller.de

E2317 © copyright A.u.K. Müller, technical changes reserved