

# ALLDOS Dosing equipment

# Pressure Retention Valves 525 for Dosing Pumps

## Construction and Function

The pressure retention valves described below are applied in connection with ALLDOS dosing pumps. The installation of a pressure retention valve is essential, if the sum of backpressure and geodetic level difference between the suction valve of the dosing pump and the point of injection is less than 20 m water gauge.

The ALLDOS pressure retention valves work according to the back-pressure principle. The pressure is built up in the diaphragm chamber of the valve. The required pressure can be adjusted via a spring-loaded adjusting screw.

The pressure retention valve ensures reliable operation of the dosing head valves by exercising a specific positive pressure on them. It also ensures a harmonic dosing flow by means of the regulating function of the diaphragm/spring system.

#### **Design variants**

The pressure retention valves are available in various nominal diameters and materials. The diaphragm is always PTFE – coated (further specifications see back page).

In nominal diameters DN 4 and 8 adaptors are available for direct installation of the pressure retention valves on the pressure valves of the dosing pumps.

#### Connections

Pressure retention valves made of plastics are supplied complete with connection screwings in corresponding materials. For pressure retention valves in DN 32 with flange connection we offer also counterflanges in corresponding materials.

#### Installation

The pressure retention valve should be installed directly before the point of injection so that the dosing line is not

emptied when the pump is switched off. If the pressure retention valve is used in conjunction with a pulsation damper, it must be installed after the pulsation damper.

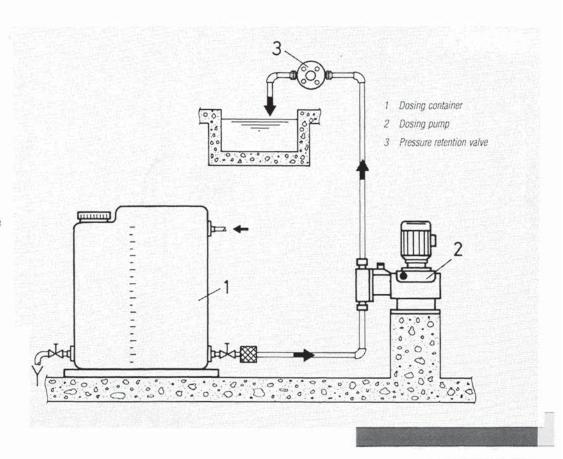
When using pressure retention valves DN 4 for direct installation on the pump, the connecting line to the point of injection should be kept as short as possible.

Observe the correct direction of flow when installing the pressure retention valve (see direction arrow on the valve)!

## Operating pressure

If no other specification is made in the order, the pressure retention valve is adjusted in the factory to 3 bar. This value can, however, be readjusted by the adjusting screw (see sectional drawing).

Important: The pressure retention valve does not function as a shut-off valve. Therefore, the adjusting screw must not be tightened too far.



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Q-Pulse Id: TMS103

# Order data for pressure retention valves

Order No.	DN	Materials (body/ o-ring)	Fig.	L (mm)	ø D (mm)	H [mm]	h [mm]	R,	d [mm]	øa [mm]	For connection to	Wght. [kg]
525-0564 525-0565 525-0566 525-0570	4 4 4 4	PVC/ Viton PP/ Viton PVDF/ - 1.4571/Viton	1 1 1 1	96 96 96 94	-68 68 68 68	90 90 90 82	21 21 21 11	-	78 78 78	4,5 4,5 4,5	hose 4/6 hose 4/6 tube 4/6 tube 4/6	0,2 0,2 0,2 0,5
525-0567 525-0568 525-0569 525-0571	8 10 10 8	PVC/ Viton PP/ Viton PVDF/ PTFE 1.4571	1 1 1 1	96 140 140	68 68 68 68	90 90 90 82	21 21 21 11		78 78 78 -	4,5 4,5 4,5	hose 6/12, tube 12 x 1,4 tube DN 10 tube DN 10 tube R 1/4"	0,4 0,3 0,4 1,0
525-1163 525-1113 525-1183 525-2133	20 20 20 20	PPH/Viton PVC/Viton PVDF/Viton 1.4571/Viton	2 2 2 3	153 149 146	90 90 90 90	144 144 144 144	28 28 28 28	3/4	72 72 72 72 72	0.000000	hose 12/20, tube 25x1,9 hose 12/20, tube 25x1,9 tube 25x1,9 tube R 3/4"	0,7 0,8 1,2 3,1
525-1173 525-1223 525-1243 525-2403 525-2233 525-2243	32 32 32 32 32 32 32	PPH/Viton PVC/Viton PVC/Viton PVDF/Viton 1.4571/Viton 1.4571/Viton	4 2 4 4 3 4	229 205 229 229 - 200	129 129 129 129 129 129	218 188 218 218 188 218	70 40 70 70 40 70	- - - 11/4	105 105 105 105 105 105 105		flange DN 32 acc. to DIN tube 40x3,0 flange DN 32 acc. to DIN flange DN 32 acc. to DIN tube R 1 1/4" flange DN 32 acc. to DIN	2,1 2,7 2,9 3,5 9,1 11,6
529-060 529-062 529-064	or inst	allation of pro DN 4, materia DN 4, materia DN 4, materia	il PVC il PP il PVC	)F	ention	valves	S DN 4	l and	DN 8	on th	e pump	
529-058 529-061 529-063 529-065 529-059		DN 4, materia DN 8, materia DN 8, materia DN 8, materia DN 8, materia	I PVC I PP II PVC	F								
		or pressure re	etenti	on va			eaded	bush,	screws	, colla	ers and nuts	
529-417 529-420 529-423	fo	r 525-1243, con r 525-2403, con r 525-2243, con	npose	d of lap	pped fla	ange, h	eaded	bush,	screws	, colla	ars and nuts	

# Spare parts for pressure retention valves

Туре		Order n	os. for spare	parts
	0-ring (2)	Diaphragm (1)	Spring (3)	Adjusting screw (4)
525-0564	52.298	10.6243-401	10.6247	10.6490-400
525-0565	52.298	10.6243-401	10.6247	10.6490-400
525-0566	52.346	10.6243-401	10.6247	10.6490-400
525-0570	-	10.6243-401	10.6247	10.6490-400
525-0567	52.105-2	10.6243-401	10.6247	10.6490-400
525-0568	52.105-2	10.6243-401	10.6247	10.6490-400
525-0569	52.344	10.6243-401	10.6247	10.6490-400
525-0571	-	10.6243-401	10.6247	10.6490-400
525-1163	52.141	10.6243-402	10.6251	10.2617-41
525-1113	52.141	10.6243-402	10.6251	10.2617-41
525-1183	52.141	10.6243-402	10.6251	10.2617-41
525-2133	-	10.6243-402	10.6251	10.2617-41
525-1173	52.202	10.6243-403	10.2663	10.2664-41
525-1223	52.154-2	10.6243-403	10.2663	10.2664-41
525-1243	52.202	10.6243-403	10.2663	10.2664-41
525-2403	52.202	10.6243-403	10.2663	10.2664-41
525-2233	-	10.6243-403	10.2663	10.2664-41
525-2243	54.009-4	10.6243-403	10.2663	10.2664-41

<sup>\*</sup> o-ring item 5 with PP, part number: 52.150-2

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Technical data subject to change without notice

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