



Overflow Valves 525 for Dosing Pumps

Construction and Function

The overflow valves described below are applied in connection with ALLDOS dosing pumps for max. 10 bar. The installation of an overflow valve protects the whole line system at the pressure side of the dosing pump against a possibly too high pressure build-up. The overflow functions via a diaphragm-spring system.

The overflow valves in sizes DN 4 and DN 8 are designed as 3-way valves. Versions in DN 20 and DN 32 are constructed as bypass-overflow valves with connected T-piece for installation into the dosing line.

Design variants

The overflow valves are available in various nominal diameters and materials. All versions are equipped with PTFE-coated diaphragms. (See back page for detailed specifications.)

In nominal diameters DN 4 and DN 8 adaptors can be supplied for direct installation of the overflow valves on the pressure valve of the dosing pumps.

Connections

Overflow valves made of plastics are supplied in sizes DN 4 and DN 8 with three connection screwings, and in size DN 20 with one connection (for the overflow line). The overflow outlet of size DN 32 features a flange connection. Counterflanges in corresponding materials can also be supplied.

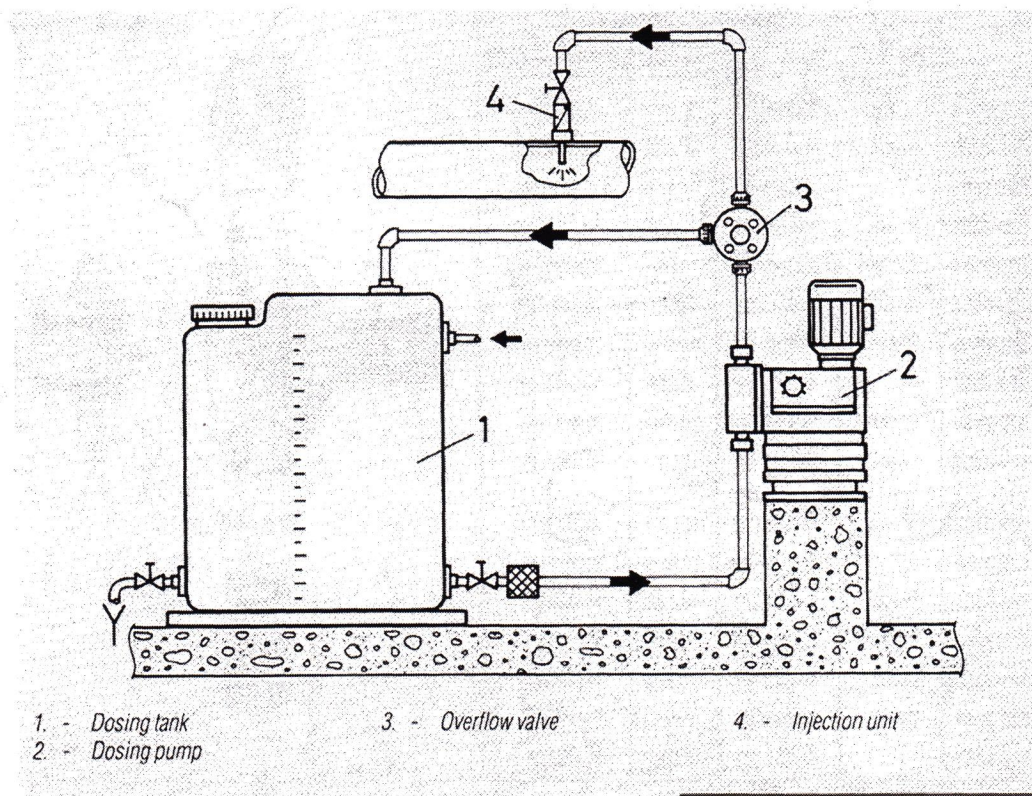
Installation

The overflow valves in DN 4 and DN 8 are installed either into the dosing line or directly on the pressure valve of the dosing pump by means of a corresponding adaptor. Always observe the direction of flow when installing the overflow valve (see direction arrow on the valve)!

For overflow valves in sizes DN 20 and DN 32, the connected T-piece is fitted into the dosing line (pipe). The overflow line must be connected and inserted into the dosing container.

Overflow-opening pressure

If no other specification is made in the order, the opening pressure of the overflow valve is adjusted in the factory to 11 - 12 bar. This value can, however, be readjusted by the adjusting screw (see sectional drawing).



Order data for overflow valves

Order No.	DN	Materials [body/o-ring]	Fig.	L [mm]	L ₁ [mm]	L ₂ [mm]	I [mm]	H [mm]	h [mm]	ø D [mm]	R _i	For connection to	Wght. [kg]
525-0579	4	PVC/ Viton	2	48	96	-	-	90	21	68	-	hose 4/6	0,2
525-0580	4	PVDF/ PTFE	2	48	96	-	-	90	21	68	-	hose 4/6	0,2
525-0581	4	1.4571/ Viton	2	47	94	-	-	82	11	68	-	tube 4/6	0,7
525-0582	4	PPH/ Viton	2	48	96	-	-	90	21	68	-	hose 4/6	0,2
525-0583	10	PPH/ Viton	2	50	140	-	-	90	21	68	-	tube DN 10	0,2
525-0584	8	PVC/ Viton	2	49	96	-	-	90	21	68	-	hose 6/12, tube 12 x 1,4	0,2
525-0585	10	PVDF/ PTFE	2	50	140	-	-	90	21	68	-	tube DN 10	0,2
525-0586	8	1.4571/ Viton	2	-	-	-	-	82	11	68	1/4"	tube R 1/4"	0,5
525-3153	20	PPH/ Viton	3	206	-	-	-	148	32	90	-	hose 12/20, tube 25 x 1,9	0,9
525-3023	20	PVC/ Viton	3	204	-	-	-	149	33	90	-	hose 12/20, tube 25 x 1,9	1,0
525-3103	20	PVDF/ Viton	3	199	-	-	-	148	32	90	-	tube 25 x 1,9	1,4
525-3073	20	1.4571/ Viton	3	-	-	-	134	149	33	90	3/4"	tube R 3/4"	3,9
525-3163	32	PPH/ Viton	3	298	-	-	-	195	44	129	-	flange DN 32 acc. to DIN	2,5
525-3043	32	PVC/ Viton	3	283	-	-	-	200	49	129	-	tube 40 x 3,0	3,3
525-3053	32	PVC/ Viton	3	305	-	-	-	200	49	129	-	flange DN 32 acc. to DIN	3,9
525-3133	32	PVDF/ Viton	3	298	-	-	-	195	44	129	-	flange DN 32 acc. to DIN	4,5
525-3083	32	1.4571/ Viton	3	-	-	-	195	195	44	129	1 1/4"	tube R 1 1/4"	11,5

Adaptors for installation of the overflow valves DN 4 and DN 8 on the pump

529-060	DN 4, material PVC
529-062	DN 4, material PP
529-064	DN 4, material PVDF
529-058	DN 4, material 1.4571
529-061	DN 8, material PVC
529-063	DN 8, material PP
529-065	DN 8, material PVDF
529-059	DN 8, material 1.4571

Counterflanges for overflow valves DN 32

529-421	for 525-3163, composed of lapped flange, headed bush, screws, collars and nuts
529-417	for 525-3053, composed of lapped flange, headed bush, screws, collars and nuts
529-420	for 525-3133, composed of lapped flange, headed bush, screws, collars and nuts

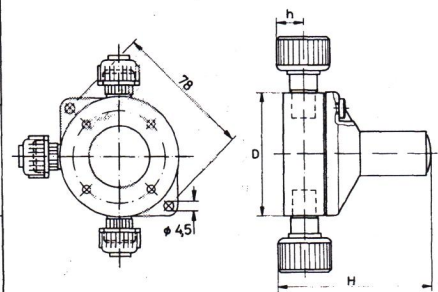


fig. 1

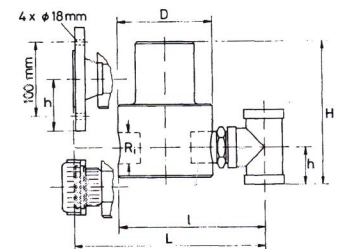
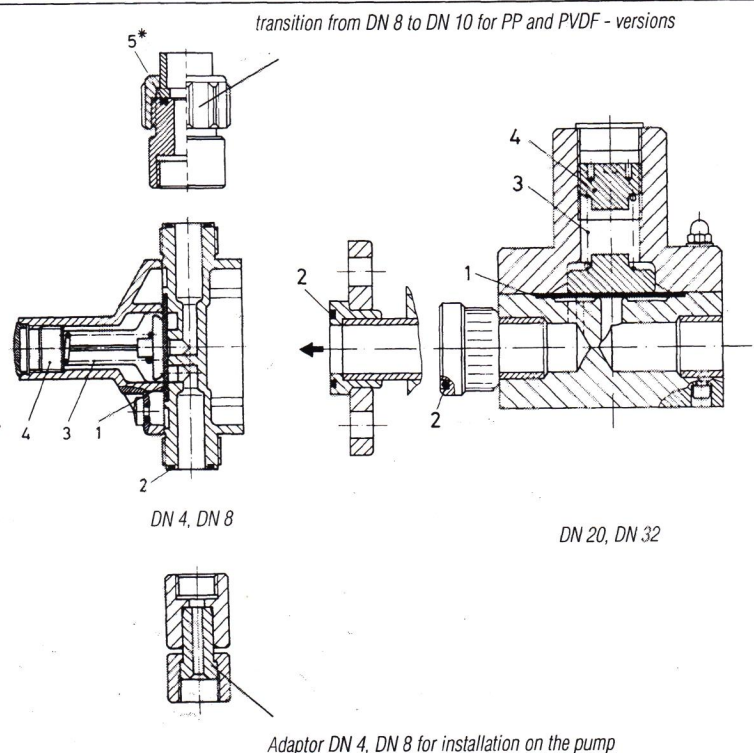


fig. 2

Spare parts for overflow valves

Type	Order no. for spare parts			
	O-Ring (2)	Diaphragm (1)	Spring (3)	Adjusting screw (4)
525-0579	52.298	10.6243-401	10.6247	10.6490-400
525-0580	52.346	10.6243-401	10.6247	10.6490-400
525-0581	-	10.6243-401	10.6247	10.6490-400
525-0582	52.298	10.6243-401	10.6247	10.6490-400
525-0583	52.105-2	10.6243-401	10.6247	10.6490-400
525-0584	52.105-2	10.6243-401	10.6247	10.6490-400
525-0585	52.344	10.6243-401	10.6247	10.6490-400
525-0586	-	10.6243-401	10.6247	10.6490-400
525-3153	52.141	10.6243-302	10.6251	10.2617-41
525-3023	52.141	10.6243-402	10.6251	10.2617-41
525-3103	52.141	10.6243-402	10.6251	10.2617-41
525-3073	-	10.6243-402	10.6251	10.2617-41
525-3163	52.202	10.6243-403	10.2663	10.2664-41
525-3043	52.154-2	10.6243-403	10.2663	10.2664-41
525-3053	52.202	10.6243-403	10.2663	10.2664-41
525-3133	52.202	10.6243-403	10.2663	10.2664-41
525-3083	-	10.6243-403	10.2663	10.2664-41



* o-ring, item 5, part number 52.150-3

Technical data subject to change without notice

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