

# Deltamatic automatic balancing valves

#### **Description:**

Automatic balancing valve (flow controller) in DZR brass with test ports across the valve. Max  $\Delta P$  600 kPa (HP); 350 kPa (LP), DN15 - 50.

#### Application:

For use in heating/aircon piping systems to control water (glycol) flows to preset but changeable levels, to prevent overflows in pumps and terminal units. Automatic balancing valves should be installed at the outlet side of each terminal unit and adjacent to pumps.

#### **Operation:**

Within certain broad  $\Delta P$  levels, the spring adjusts the flow of fluid through the valve exit. The flow is predetermined by the size of the orifice in the entry side and the force of the spring.

# Materials and spec.:

Valve & Cartrigde body O-rings Diaphragm Max. diff pressure

Medium temperature

DZR Brass to EN CW 602 N EPDM HNBR(LP) Reinforced HNBR(HP) 600 kPa (HP); 350 kPa (LP) -20°C to 120°C

# Specification text assistance

### High pressure cartridges for DN 15-DN 50

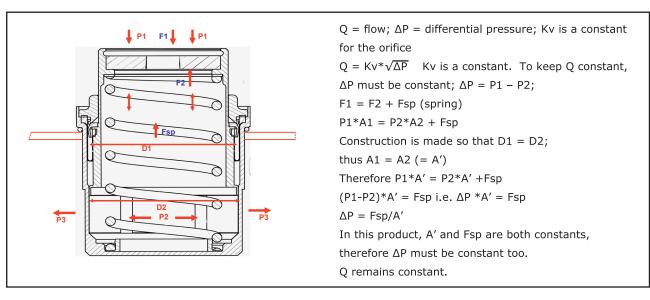
"The cartridge for automatic balancing valve ('screw ends connection' type housing) should be made of DZR brass to BS EN 12164 CW602N. There should be specified differential pressure control range for High pressure up to 600 kPa and Low pressure up to 350KPa. The flow rate should be defined by replaceable orifice plate. There shall be a rolling diaphragm in the cartridge, made of reinforced HNBR. The O-rings should be made of EPDM."





The designs, materials and specifications shown are subject to change without notice due to our continuing programme of product development.

Automatic balancing valve (flow controller) in DZR brass with test ports across the valve. Max  $\Delta P$  600 kPa (HP); 350 kPa (LP), DN15 - 50.



## Cartridges for Automatic Balancing Valve DN15-25, Deltamatic

Low pressure	0.007 l/s t	0.007 l/s to 0.151 l/s	
Article no	Flow (I/s)	Min ΔP (kPa)	
952-10 1 1150	0.007	7	
952-10 1 1170	0.010	7	
952-10 1 1190	0.012	7	
952-10 1 1210	0.015	7	
952-10 1 1230	0.021	8	
952-10 1 1260	0.024	9	
952-10 1 1290	0.029	10	
952-10 1 1300	0.032	10	
952-10 1 1320	0.036	11	
952-10 1 1350	0.043	11	
952-10 1 1370	0.049	12	
952-10 1 1400	0.057	12	
952-10 1 1430	0.067	12	
952-10 1 1460	0.078	12	
952-10 1 1490	0.089	13	
952-10 1 1510	0.097	13	
952-10 1 1540	0.111	13	
952-10 1 1570	0.132	14	
952-10 1 1620	0.151	14	

High pressure	0.007 l/s t	0.007 I/s to 0.151 I/s	
Article no	Flow (I/s)	Min ΔP (kPa)	
952-10 2 1210	0.015	7	
952-10 2 1230	0.021	8	
952-10 2 1260	0.024	9	
952-10 2 1290	0.029	10	
952-10 2 1300	0.032	10	
952-10 2 1320	0.036	11	
952-10 2 1350	0.043	11	
952-10 2 1370	0.049	12	
952-10 2 1400	0.057	12	
952-10 2 1430	0.067	12	
952-10 2 1460	0.078	12	
952-10 2 1490	0.089	13	
952-10 2 1510	0.097	13	
952-10 2 1540	0.111	13	
952-10 2 1570	0.132	14	
952-10 2 1620	0.151	14	

Low	pressure

952-20 1 2109

0.171 l/s to 0.260 l/s

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Article no	Flow (I/s)	Min ΔP (kPa)
952-11 1 1725	0.171	14
952-11 1 1730	0.186	14
952-11 1 1735	0.204	14
952-11 1 1740	0.222	16
952-11 1 1745	0.242	19
952-11 1 1750	0.260	21

Low pressure	0.283 l/s t	0.283 l/s to 0.680 l/s		
Article no	Flow (I/s)	Min ΔP (kPa)		
952-20 1 2070	0.283	22		
952-20 1 2074	0.300	22		
952-20 1 2077	0.332	22		
952-20 1 2082	0.371	23		
952-20 1 2086	0.412	23		
952-20 1 2088	0.439	23		
952-20 1 2092	0.493	24		
952-20 1 2094	0.509	24		
952-20 1 2099	0.578	25		
952-20 1 2103	0.625	26		
952-20 1 2106	0.644	27		

0.680

High pressure	0.171 l/s t	0.171 l/s to 0.260 l/s	
Article no	Flow (I/s)	Min ∆P (kPa)	
952-11 2 1725	0.171	14	
952-11 2 1730	0.186	14	
952-11 2 1735	0.204	14	
952-11 2 1740	0.222	16	
952-11 2 1745	0.242	19	
952-11 2 1750	0.260	21	

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952-20 2 2077	0.332	22	
952-20 2 2082	0.371	23	
952-20 2 2086	0.412	23	
952-20 2 2088	0.439	23	
952-20 2 2092	0.493	24	
952-20 2 2094	0.509	24	
952-20 2 2099	0.578	25	
952-20 2 2103	0.625	26	
952-20 2 2106	0.644	27	
952-20 2 2109	0.680	28	



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# Cartridges for Automatic Balancing Valve DN32-50, Deltamatic

Low pressure	0.188 l/s t	0.188 l/s to 0.968 l/s	
Article no	Flow (I/s)	Min ΔP (kPa)	
952-30 1 3073	0.188	12	
952-30 1 3082	0.239	12	
952-30 1 3089	0.283	12	
952-30 1 3094	0.315	12	
952-30 1 3096	0.331	12	
952-30 1 3098	0.353	13	
952-30 1 3102	0.375	13	
952-30 1 3107	0.413	13	
952-30 1 3111	0.435	14	
952-30 1 3112	0.453	14	
952-30 1 3118	0.504	14	
952-30 1 3124	0.556	15	
952-30 1 3125	0.568	16	
952-30 1 3129	0.603	16	
952-30 1 3132	0.631	17	
952-30 1 3135	0.661	17	
952-30 1 3138	0.694	18	
952-30 1 3142	0.733	18	
952-30 1 3148	0.797	19	
952-30 1 3156	0.886	21	
952-30 1 3161	0.946	22	
952-30 1 3163	0.968	22	

High pressure	0.188 l/s t	o 0.968 l/s
Article no	Flow (I/s)	Min ΔP (kPa)
952-30 2 3073	0.188	12
952-30 2 3082	0.239	12
952-30 2 3089	0.283	12
952-30 2 3094	0.315	12
952-30 2 3096	0.331	12
952-30 2 3098	0.353	13
952-30 2 3102	0.375	13
952-30 2 3107	0.413	13
952-30 2 3111	0.435	14
952-30 2 3112	0.453	14
952-30 2 3118	0.504	14
952-30 2 3124	0.556	15
952-30 2 3125	0.568	16
952-30 2 3129	0.603	16
952-30 2 3132	0.631	17
952-30 2 3135	0.661	17
952-30 2 3138	0.694	18
952-30 2 3142	0.733	18
952-30 2 3148	0.797	19
952-30 2 3156	0.886	21
952-30 2 3161	0.946	22
952-30 2 3163	0.968	22

Low pressure	1.009 l/s t	1.009 I/s to 3.154 I/s	
Article no	Flow (I/s)	Min ΔP (kPa)	
952-40 1 4148	1.009	20	
952-40 1 4152	1.072	21	
952-40 1 4156	1.136	21	
952-40 1 4164	1.199	21	
952-40 1 4168	1.262	22	
952-40 1 4173	1.325	22	
952-40 1 4176	1.388	23	
952-40 1 4182	1.514	24	
952-40 1 4191	1.640	25	
952-40 1 4194	1.766	26	
952-40 1 4200	1.893	27	
952-40 1 4205	2.019	28	
952-40 1 4211	2.145	30	
952-40 1 4217	2.271	31	
952-40 1 4222	2.397	33	
952-40 1 4229	2.523	34	
952-40 1 4235	2.650	36	
952-40 1 4241	2.776	38	
952-40 1 4248	2.902	40	
952-40 1 4250	3.028	42	
952-40 1 4262	3.154	44	

High pressure	1.009 I/s to 3.154 I/s	
Article no	Flow (I/s)	Min ΔP (kPa)
952-40 2 4148	1.009	20
952-40 2 4152	1.072	21
952-40 2 4156	1.136	21
952-40 2 4164	1.199	21
952-40 2 4168	1.262	22
952-40 2 4173	1.325	22
952-40 2 4176	1.388	23
952-40 2 4182	1.514	24
952-40 2 4191	1.640	25
952-40 2 4194	1.766	26
952-40 2 4200	1.893	27
952-40 2 4205	2.019	28
952-40 2 4211	2.145	30
952-40 2 4217	2.271	31
952-40 2 4222	2.397	33
952-40 2 4229	2.523	34
952-40 2 4235	2.650	36
952-40 2 4241	2.776	38
952-40 2 4248	2.902	40
952-40 2 4250	3.028	42
952-40 2 4262	3.154	44

