
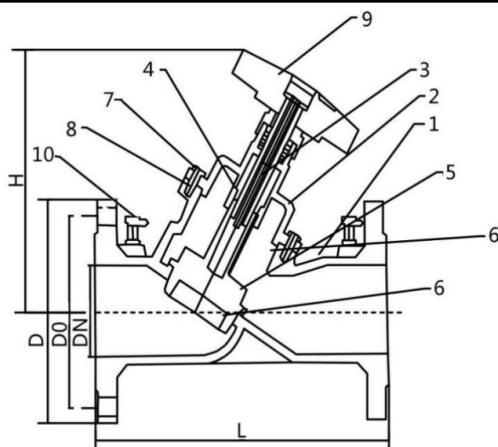


杭州富阳金嘉流体设备有限公司  
Hangzhou Fuyang Jinjia Fluid Equipment Co., LTD

TECHNICAL FILE FOR STATIC BALANCING VALVES

1:Description and Appearance		
DN40/PN16		Balancing digital valve is a with special function and good flow regulation characteristics valve.It's relative flow is linear with the relative opening.it is with the advantage of Easy installation, good sealing, no leakage, long service life .It is widely used in the balance control of boilers or chillers, heat supply stations, district heating pipe networks, heating systems in buildings and air conditioning pipe networks.
DN50/PN16		
DN65/PN16		
DN80/PN16		
DN100/PN16		
DN125/PN16		
DN150/PN16		
2: Parameters		
Nominal Diameter	DN40--DN300	
Nominal Pressure	0.6--1.6MPa	
Operating Temperature	≤150℃	
Applicable medium	non-corrosive liquids such as water,steam	
Flow characteristics	Equal percentage	
3.Parts and Material(See the figure under No.4)		
01	Valve Body	GGG40 (Color: Matte painting blue RAL5017)
02	Valve Cover	GGG40 (Color: Matte painting blue RAL5017)
03	Valve stem	SS304
04	Stem Nut	Brass Hpb57-3
05	Valve Spool	Brass Hpb57-3
06	Gasket	PTFE/EPDM
07	Bolt	SS304
08	Nut	SS304
09	Handle wheel	Polyethylene Black RAL 9011
10	Nozzle	Brass Hpb57-3
/	Flanges Standard	BP Standard EN1092-2
/	Flange Dust Cover	Yellow RAL1016,PE
4.Outer Sizes		

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Specification	L (MM)	D (MM)	D0 (MM)	H (MM)	KVs	Weight (KG)
DN40	200	150	110	195	32.5	8.50
DN50	230	165	125	195	41	10.0
DN65	290	185	145	200	100	14.50
DN80	310	200	160	242	130	21.00
DN100	350	220	180	252	200	27.00
DN125	400	250	210	277	300	46.00
DN150	480	285	240	300	415	65.00

**5. Flowing data**

Turns / n	Flowing m <sup>3</sup> /h						
	DN40	DN50	DN65	DN80	DN100	DN125	DN150
0.5	2.52	3.24	4.36	5.80	6.94	8.30	9.70
1	3.58	4.76	5.96	7.94	9.76	13.20	14.92
1.5	5.36	6.26	8.25	10.12	13.56	17.90	19.25
2	6.58	8.98	11.18	14.33	17.21	24.10	28.95
2.5	9.26	12.01	14.68	18.10	24.56	33.24	52.20
3	13.20	15.35	18.68	25.00	34.00	52.38	84.27
3.5	16.85	19.56	24.85	32.50	53.50	85.00	131.00
4	19.16	24.60	31.25	40.50	72.50	105.00	185.00
4.5	22.36	29.16	39.55	49.78	85.00	135.00	218.00
5	25.15	35.40	47.50	60.00	98.00	162.00	248.00
5.5	32.50	41.00	54.50	71.50	108.50	182.50	273.50
6			62.00	82.00	120.00	202.00	298.50
6.5			69.25	93.00	135.00	220.00	320.00
7			78.50	102.50	150.00	239.00	340.00
7.5			85.00	110.80	162.80	255.90	360.00
8			92.50	120.96	175.00	270.00	376.00
8.5			100.00	130.00	185.00	285.00	390.00
9					200.00	300.00	415.00

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Note: The data is only for reference when selecting the valve. The actual opening degree depends on the final testing result by the special instrument according to the different medium, actual pressure, and flow demand after the valve was installed.

**6. Packing and transportation**

6.1 1pc/Bubble bag/carton, several pcs per wooden case

6.2 Loading/Unloading and transportation must be handled with care

**7. Metal Label/Carton Label/wooden case Label**

7.1 Metal label must be with buyer's logo and tied on the valve body

7.2 Carton labels must indicate the product name/size/ and it must be printed or tied on the two fronts of the carton

7.3 Wooden case label must indicate the buyer name, product name, size and quantity.

**8. Testing**

8.1 Test medium: 5—40°C water

8.2 Filling and other joint sealing parts test: 1.76Mpa pressure lasting 3—5min, the valve should be no leakage

8.3 Compressive strength test: 2.4Mpa pressure lasting 3—5min, the valve should be no leakage

8.4 Sealing surface seal test: 0.8mpa lasting 3—5min, the valve should be no leakage

**9. Installation and instruction**

9.1 Installation location and Precautions

9.1.1 The balancing valve can be installed on the return pipe or on the water supply line, and only one installation is required in each loop. It is recommended to install the balancing valve on the return pipe with a lower water temperature.

9.1.2 The balancing valve on the manifold should be installed in the direction of the outlet of the pump.

9.1.3 The balancing valve can be installed horizontally or vertically.

9.1.4 The direction of flow of the medium should be the same as the direction marked on the valve body.

9.2 Precautions

9.2.1 The balance valve opening should not be arbitrarily changed. After the balance valve installed in the pipe network system is adjusted, in order to maintain the equilibrium state of the system, the opening of the balance valve should not be arbitrarily changed during the normal operation of the system, especially the change of degree locking device is not allowed.

9.2.2. Pay attention to the balance between the new system and the original system. When a new system with a balancing valve is connected to the original system, attention should be paid to the balance of the water flow distribution between the new system and the original system, so that the new system (or the modified system) with the balancing valve is not able to achieve the required water flow. . At this time, a balancing valve should be added at the entrance of the original system.

**10. Warranty**

10.1 Warranty period: one year from the B/L date

10.2 If there are some big problem with the valves, the seller must give some additional valves to the buyer free in the next shipment, but the quantity must be less than 3% of the total quantity of the relative size

10.3 Identification and resolution of quality claims: The buyer must provide enough pictures/video or other evidence to prove the problems to the seller. If the two parties cannot reach an agreement, they will submit a third party test, and all test charges will be shared by two parties.