



Product Specification

The Oventrop differential pressure regulators “Hydromat DFC” are proportional regulators designed to maintain a constant differential pressure.

With the differential pressure in the installation increasing, the valve disc closes down and opens as the differential pressure falls. The excess differential pressure is reduced by the differential pressure regulator, until the set differential pressure in the pipe is reached.

Infinitely adjustable nominal value which can be locked and read from the hand wheel at any time. With isolating facility and ball valve for draining and filling.

Body made of cast iron (EN-GJL-250 DIN EN 1561), bronze bonnet, stem made of brass resistant to dezincification (DZR), seat and disc (soft seal) made of stainless steel. Maintenance free stem seal due to double EPDM O-ring.

The regulators are supplied complete with connection set, consisting of:

1 capillary 1 m (6x1 mm copper pipe), 1 isolating ball valve for the capillary (connection thread ¼”).

Specifications:

Maximum working temperature: 248°F

Maximum working pressure: 235 psi

Temperature range: 14°F to 248°F

Maximum Differential Pressure: 73 PSID

Size	L	H	d1	d2	DF	KF	n x dF	Item Number
2½" DN 65	11.42	14.76	6.30	8.11	7.28	5.50	4 x 0.75	1064951
3" DN 80	12.20	15.55	6.30	8.11	7.83	6.00	4 x 0.75	1064952
4" DN100	13.78	16.14	6.30	8.11	8.66	7.50	8 x 0.75	1064953
5" DN125	15.75	17.72	6.30	8.11	9.84	8.50	8 x 0.88	1064954
6" DN150	18.90	17.72	6.30	8.11	11.20	9.50	8 x 0.88	1064955

Valve pressure drop set point

Setting	1.0	1.3	1.7	2.1	2.5	2.9	3.3	3.7
PSID	5.80	6.53	7.25	7.98	8.70	9.43	10.15	10.90
Setting	4.0	4.3	4.6	4.8	5.0	5.2	5.4	5.6
PSID	11.60	12.30	13.05	13.80	14.50	15.23	15.95	16.68
Setting	5.8	6.0	6.4	6.8	7.0	7.2	7.5	
PSID	17.40	18.85	20.30	21.75	23.20	24.65	26.10	

Valve shall be installed in the return line.

It is recommended to install the valve as a compliment to a Hydrocontrol R valve in the supply line.