

## DM941 / DA941



Fixed Integral Orifice  
Double Regulating Valve (FODRV)

DM941 PN16 / DA941 CLASS 125



BALANCING VALVES

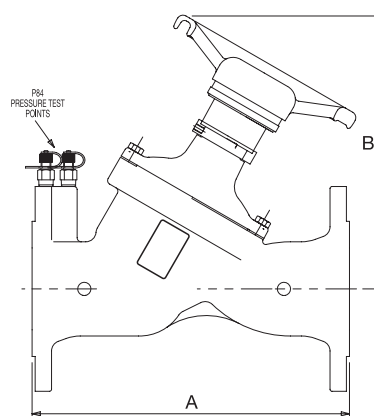
### Features & Benefits

- Single unit Y-Pattern globe valves incorporating an integral orifice plate to form a fixed orifice flow measurement unit with regulation and isolation capacity
- The Double Regulating feature allows the valve to be used for isolation and to be reopened to its pre-set position to maintain required flow rate
- Accuracy of flow measurement is  $\pm 5\%$  at all open positions of the valve in accordance with BS 7350: 1990
- Primarily used in injection or other circuits requiring a double regulating valve for system balancing

### Materials

PART	MATERIAL
Body	Ductile Iron - BS EN 1563 GJS-450-10
Bonnet	Ductile Iron - BS EN 1563 GJS-450-10
Bonnet Gasket	Non-asbestos
Disc (All sizes)	EPDM Coated Cast Iron
Disc Bush	Bronze
Stem	410 SS
Gland (65 to 150mm)	Brass
Gland (200 to 300mm)	Cast Iron
Gland Nut	Brass
Packing	Non-asbestos
Seat Ring	Bronze

### Dimensional Drawing



### Pressure/Temperature Ratings

TEMPERATURE (°C)	-10 to 120
PRESSURE (BAR)	16.0

Ratings align with BS EN 1092-2 PN16 (formerly BS 4504)

### Dimensions & Weights

SIZE (DN)	FACE-TO-FACE A (mm)	CENTRE-TO-TOP B (mm)	WEIGHT (kg)
65	290	262	16.3
80	310	267	20.0
100	350	300	28.5
125	400	325	38.0
150	480	340	51.0
200	600	525	124.0
250	730	575	194.0
300	850	645	254.0

### Coefficients\*

DN (DN)	FLOW (Kv)	HEAD LOSS (K)	KVS
65	93	6.9	90
80	99	6.8	120
100	136	12.7	220
125	229	8.7	342
150	342	8.9	468
200	550	10.3	792
250	1052	6.0	1224
300	1367	7.8	1800

\*Fully open position.

**SPECIFICATION:** Valves conform to requirements of BS 7350: 1990

**END CONNECTIONS:** DM941 Ends are flanged to BS EN 1092-2 (formerly BS 4504) and DA941 Ends are flanged to ANSI B16.1 Class 125

Valid as of 160418

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## DM931 / DA931



Variable Orifice Double  
Regulating Valves (VODRV)

PN16 / CLASS 125



BALANCING VALVES

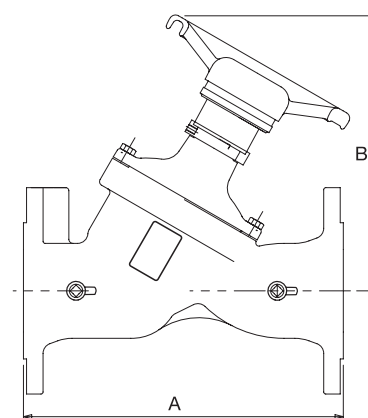
### Features & Benefits

- These are Y-Pattern globe valves supplied with two pressure test points P84 to provide flow measurement, regulation and isolation
- The Double Regulating feature allows the valve to be used for isolation and to be reopened to its pre-set position to maintain required flow rate
- Primarily used in injection or other circuits requiring a double regulating valve for system balancing
- Accuracy of flow measurement is  $\pm 10\%$  at the full open position of the valve
- Some reduction in accuracy occurs at partial openings of the valve in accordance with BS 7350

### Materials

PART	MATERIAL
Body	Ductile Iron - BS EN 1563 GJS-450-10
Bonnet	Ductile Iron - BS EN 1563 GJS-450-10
Bonnet Gasket	Non-asbestos
Disc (All sizes)	EPDM Coated Cast Iron
Disc Bush	Bronze
Stem	410 SS
Gland (65 to 150mm)	Brass
Gland (200 to 300mm)	Cast Iron
Gland Nut	Brass
Packing	Non-asbestos
Seat Ring	Bronze

### Dimensional Drawing



### Pressure/Temperature Ratings

TEMPERATURE (°C)	-10 to 120
PRESSURE (BAR)	16.0

Ratings align with BS EN 1092-2 PN16 (formerly BS 4504)

### Dimensions & Weights

SIZE (DN)	FACE-TO-FACE A (mm)	CENTRE-TO-TOP B (mm)	WEIGHT (kg)
65	290	262	15.8
80	310	267	19.5
100	350	300	28.0
125	400	325	37.5
150	480	340	50.5
200	600	525	123.0
250	730	575	192.0
300	850	645	251.0

### Coefficients\*

SIZE (DN)	FLOW (Kv)	HEAD LOSS (K)
65	85	4.9
80	111	5.5
100	146	9.2
125	250	7.3
150	380	6.5
200	600	7.8
250	1211	4.6
300	1521	6.0

\*Fully open position.

**SPECIFICATION:** Conform to requirements of BS 7350: 1990

**END CONNECTIONS:** DM931 Ends are flanged to BS EN 1092-2 (formerly BS 4504) and DA931 Ends are flanged to ANSI B16.1 Class 125

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## DM921



Double Regulating Valve (DRV)

PN16



DM921

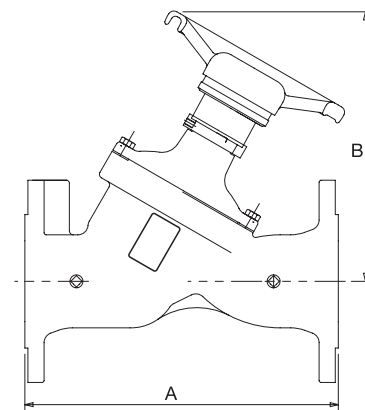
### Features & Benefits

- Y-Pattern globe valve with a characterised throttling disc
- The Double Regulating feature allows the valve to be used for isolation and to be reopened to its pre-set position to maintain required flow rate
- In two unit systems, the DM921 has sufficient authority to regulate flow in circuits incorporating a flow measurement device
- The valve opening may be set to control flow at a pre-determined rate
- Fitted with 2 x 1/4" BSPT plugs for conversion to DM931 if required
- Operation of the valve is by means of a hand wheel incorporating a micrometre device

### Materials

PART	MATERIAL
Body	Ductile Iron - BS EN 1563 GJS-450-10
Bonnet	Ductile Iron - BS EN 1563 GJS-450-10
Bonnet Gasket	Non-asbestos
Disc (All sizes)	EPDM Coated Cast Iron
Disc Bush	Bronze
Stem	410 SS
Gland (65 to 150mm)	Brass
Gland (200 to 300mm)	Cast Iron
Gland Nut	Brass
Packing	Non-asbestos
Seat Ring	Bronze

### Dimensional Drawing



### Pressure/Temperature Ratings

TEMPERATURE (°C)	-10 to 120
PRESSURE (BAR)	16.0

Ratings align with BS EN 1092-2 PN16 (formerly BS 4504).

### Dimensions & Weights

SIZE (DN)	FACE-TO-FACE A (mm)	CENTRE-TO-TOP B (mm)	WEIGHT (kg)
65	290	262	15.8
80	310	267	19.5
100	350	300	28.0
125	400	325	37.5
150	480	340	50.5
200	600	525	123.0
250	730	575	192.0
300	850	645	251.0

### Coefficients\*

SIZE (DN)	FLOW (Kv)	HEAD LOSS (K)
65	85	4.9
80	111	5.5
100	146	9.2
125	250	7.3
150	380	6.5
200	600	7.8
250	1211	4.6
300	1521	6.0

\*Fully open position.

### END CONNECTIONS:

Ends flanged to BS EN 1092-2 PN16.

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