

**Product description**  
**DM**  
**Measuring valve**

**DESCRIPTION**

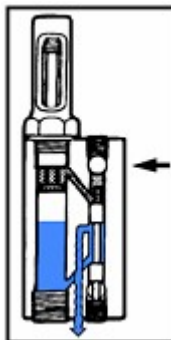
A range of line mounted, adjustable metering units for use with dual-line lubrication systems, whereby pressurisation of either line discharges a fixed volume of lubricant to the lubrication point.

**BENEFITS**

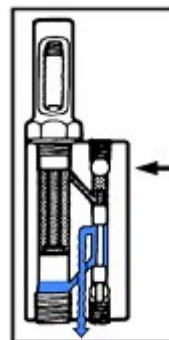
- Metering units can be supplied with one to four independent operating sections.
- One single discharge connection for each operating section so that the discharge to each bearing can be individually adjusted.
- Positive hydraulic operation.
- Visual indicator showing operation.
- Five discharge ranges.
- Stepless wide adjustment within each range to provide bearing with its ideal lubricant injection volume.



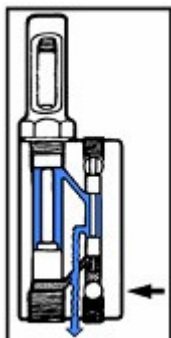
**OPERATION**



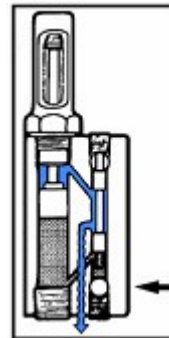
1. With the reversing valve on the pump set to direct flow into the upper supply line, pressurised lubricant entering the valve forces the inlet piston down. This allows pressure to be applied to the top of the main discharge piston which, then begins to move downwards.



2. Maintained pump pressure on the supply line forces this main discharge piston to the lowest point of its travel and the valve complete its operation in one direction, delivering the measured charge to the bearing. Further application of pressure to the upper supply line will have no effect.



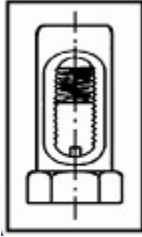
3. When the reversing valve on the pump changes over to direct the pump flow to the lower supply line, pressurised lubricant entering the valve forces the inlet piston up, allowing pump pressure to be applied to the bottom of the discharge piston. The discharge piston begins to move up.



4. Maintained pump pressure on the supply line forces this main discharge piston to the uppermost point of its travel, and the valve completes its operation in another direction, delivering the second measured charge to the bearing. Further application of pressure to the lower supply line will have no effect.

## ADJUSTMENT

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The valve discharge must be set on site to suit the application. This will be found by examination of the bearing or slide after the initial operation. If excess lubricant is present, reduce the valve stroke. If dry, increase the valve stroke. The pause between cycles may also have to be adjusted.

<b>A. DISTRIBUTOR TYPE</b>	<b>Code</b>
	DM

<b>B. NUMBER OF OUTLETS</b>	<b>Code</b>
DM31, (0.2-1.2 cm <sup>3</sup> ), 1 outlet	31
DM32, (0.2-1.2 cm <sup>3</sup> ), 2 outlets	32
DM33, (0.2-1.2 cm <sup>3</sup> ), 3 outlets	33
DM34, (0.2-1.2 cm <sup>3</sup> ), 4 outlets	34
DM41, (0.6-2.25 cm <sup>3</sup> ), 1 outlet	41
DM42, (0.6-2.25 cm <sup>3</sup> ), 2 outlets	42
DM43, (0.6-2.25 cm <sup>3</sup> ), 3 outlets	43
DM44, (0.6-2.25 cm <sup>3</sup> ), 4 outlets	44
DM52, (1.2-5.1 cm <sup>3</sup> ), 2 outlets	52
DM54, (1.2-5.1 cm <sup>3</sup> ), 4 outlets	54
DM61, (3.0-14.25 cm <sup>3</sup> ), 1 outlet	61
DM62, (3.0-14.25 cm <sup>3</sup> ), 2 outlets	62
DM101, (6.0-28.5 cm <sup>3</sup> ), 1 outlet	01

<b>C. REVISION</b>	<b>Code</b>
Status A	A

<b>D. CONNECTIONS</b>	<b>Code</b>
1/4" B.S.P.	01
1/4" N.P.T. (API)	02

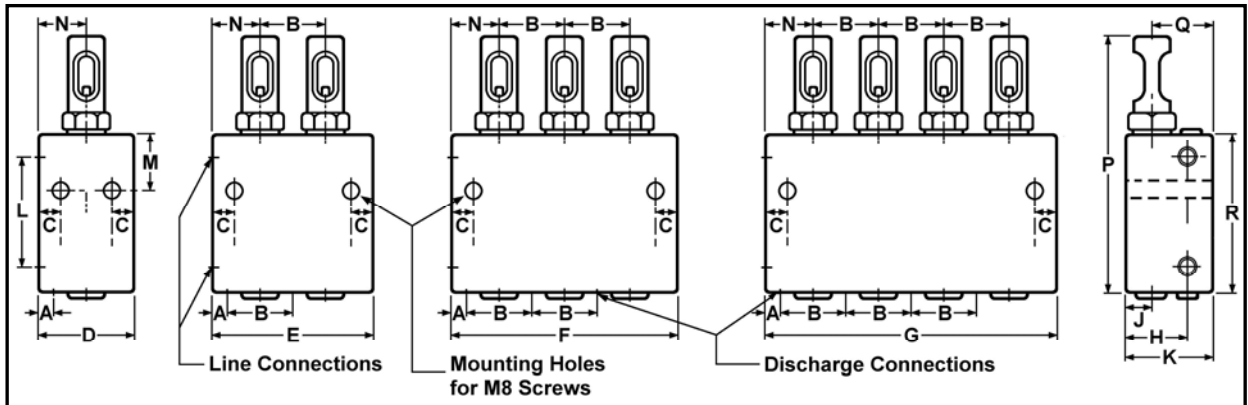
<b>E. ACCESSORIES</b>	<b>Code</b>
without	00

## SPECIFICATION

Valve size	Discharge per outlet per stroke (cm )	
	Maximum	Minimum
DM31, 32, 33, 34	1.20	0.20
DM41, 42, 43, 44	2.25	0.60
DM51, 52, 53, 54	5.10	1.20
DM61, 62	14.25	3.00
DM62 - 101	28.50	6.00

<b>Max. supply pressure</b>		350 bar
<b>Max. discharge pressure</b>		70 bar
<b>Temperature range</b>		- 20°C to + 90°C
<b>Lubricant</b>		Oil or grease (No. 3 N.L.G.I. max.)
<b>Materials</b>	<b>Body</b>	Steel zinc plated
	<b>Pistons</b>	Hardened steel
	<b>Gland</b>	DM60 - Steel others - Brass
	<b>Seals</b>	DM60 - Nitrile others - Viton
	<b>Indicator</b>	Stainless steel
	<b>Gland Covers</b>	Plastic

## DIMENSION



Valve Size	Dimensions (mm)																Pipe connections	
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	Line	Disch.
DM31	8	-	12	44	-	-	-	26	10	38	41	25	22	100	28	64	3/8"	1/8"
DM32, 33, 34	8	28	37	-	73	102	130	26	10	38	41	25	22	100	28	64	3/8"	1/8"
DM41, 42, 43, 44	8	32	10	48	79	111	143	28	11	40	56	28	24	121	29	76	3/8"	1/4"
DM51, 52, 53, 54	10	37	10	54	90	127	164	32	11	44	56	29	29	138	33	82	3/8"	1/4"
DM61, 62	10	46	10	62	108	-	-	45	20	57	56	32	33	151	37	89	3/8"	1/4"
DM62-101	10	46	10	-	108	-	-	45	20	57	56	32	33	151	37	89	3/8"	1/4"

## ORDERING

Valve model	Number of outlets	BSP	Stock code Denco	NPT	Stock code FARVAL	Weight
DM31	1	DMM31A0100	16770	DMM31A0200	DM31100	0.75
DM32	2	DMM32A0100	16780	DMM32A0200	DM32100	1.30
DM33	3	DMM33A0100	16790	DMM33A0200	DM33100	1.80
DM34	4	DMM34A0100	16800	DMM34A0200	DM34100	2.30
DM41	1	DMM41A0100	16810	DMM41A0200	DM41100	1.00
DM42	2	DMM42A0100	16820	DMM42A0200	DM42100	1.75
DM43	3	DMM43A0100	16830	DMM43A0200	DM43100	2.45
DM44	4	DMM44A0100	16840	DMM44A0200	DM44100	3.15
DM51	1	DMM51A0100	16850	DMM51A0200	DM51100	1.40
DM52	2	DMM52A0100	16860	DMM52A0200	DM52100	2.40
DM53	3	DMM53A0100	16870	DMM53A0200	DM53100	3.40
DM54	4	DMM54A0100	16880	DMM54A0200	DM54100	4.35
DM61	1	DMM61A0100	16890	DMM61A0200	DM61100A	2.35
DM62	2	DMM62A0100	16900	DMM62A0200	DM62100A	4.10
DM62-101	1	DMM01A0100	16910	DMM01A0200	DM62101A	4.15

## EXAMPLE OF ORDERING

		Code								
		D	M	4	1	A	0	1	0	0
<b>Distributor type DM</b>	<b>Code: DM</b>									
<b>Number of outlets</b> DM41, (0.6 – 2.25 cm <sup>3</sup> ), 1 outlet 0.1 – 1 cm <sup>3</sup>	<b>Code: 41</b>									
<b>Revision</b> Status A	<b>Code: A</b>									
<b>Connections</b> 1/4" B.S.P	<b>Code: 01</b>									
<b>Accessories</b> without	<b>Code: 00</b>									

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 For smooth motion*