

**Product description**

**DDJ & DDU**

**Measuring valve**

**DESCRIPTION**

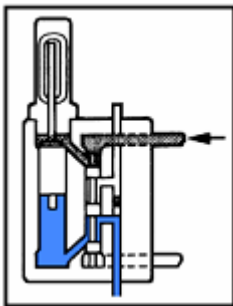
Two ranges of line mounting adjustable metering units for use with a dualine system, which discharge a fixed volume of lubricant to half the lubrication points on pressurisation of one line and to the remaining points on pressurisation of the second line.

**BENEFITS**

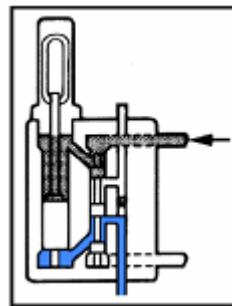
- Each measuring valve can have from one to four independent operating sections.
- Two normal discharge connections for each operating section reduce the overall cost of the system.
- Any section of the valve can be modified to one discharge, allowing a double sized discharge or an odd number of outlets on the valve.
- Wide stepless adjustment bands for each size of valve allow optimum lubrication delivery to every bearing.
- Positive hydraulic operation with visible indicator of operation.



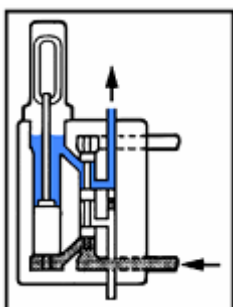
**OPERATION**



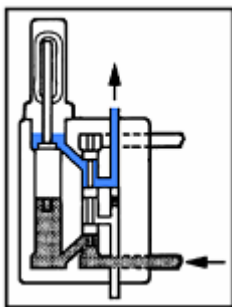
1. Pressurisation of the upper supply line forces the inlet piston down, thereby uncovering both diagonal passages. Lubricant passes through the upper diagonal passage into the main chamber and acts on the top of the main piston, causing it to move.



2. Maintained upper supply line pressure forces the main piston to the lowest limit of its travel, delivering the full measured charge to the bearing. Beyond this point, maintaining upper supply line pressure will have no effect.



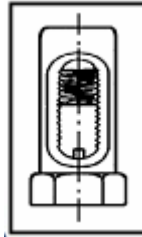
3. Pressure is switched to the lower supply line (on a signal from the flow directing valve) which forces the inlet piston up, thereby uncovering both diagonal passages. Lubricant passes through the lower diagonal into the main chamber and acts on the bottom of the main piston, causing it to move upward.



4. Maintained lower supply line pressure forces the main piston to the uppermost limit of its travel, delivering the full measured charge to the bearing. Beyond this point, maintaining lower supply line pressure will have no effect.



## ADJUSTMENT



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 cycle between cycles may also have to be adjusted.

## ORDERING

Valve model	Number of	Stock code	Weight
DDJ1	1	16915	0,40
DDJ2	2	16920	0,40
DDJ3	3	16930	0,60
DDJ4	4	16940	0,60
DDJ5	5	16945	0,85
DDJ6	6	16950	0,85
DDJ7	7	16960	1,05
DDJ8	8	16970	1,05
DDU1	1	17210	1,35
DDU2	2	17220	1,35
DDU3	3	17230	2,40
DDU4	4	17240	2,40
DDU5	5	17250	3,40
DDU6	6	17260	3,40
DDU7	7	17270	4,45
DDU8	8	17280	4,45

## SPECIFICATION

Valve size	Discharge per outlet per double stroke (cm <sup>3</sup> )	
	Maximum	Minimum
DDJ	0,60	0,13
DDU	3,50	0,50

<b>Max supply pressure</b>	350 bar
<b>Max discharge pressure</b>	70 bar
<b>Temperature range</b>	- 20° to + 120°C
<b>Materials</b>	<b>Body</b> Steel
	<b>Pistons</b> Hardened steel
	<b>Packing gland</b> Brass
	<b>Seals</b> Viton
	<b>Indicator stem</b> Stainless steel

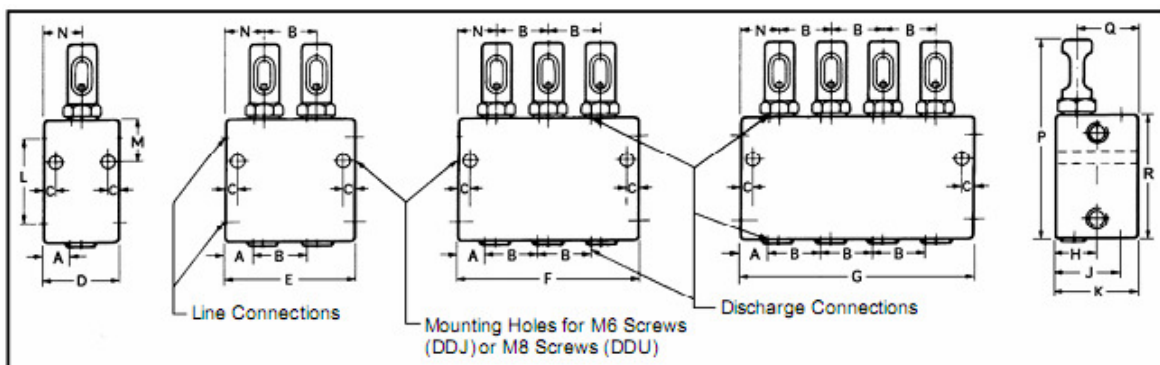
Plastic gland covers are available



## INSTALLATION

All ports are suitable for BSB taper fittings. Extension nipples may be required to allow connections to central ports especially at the gland end. Valves have two outlet ports for each operating section. If an odd number of outlets is required either to suit the installation or to give twice the maximum discharge, an internal cross porting plug must be removed (see installation and maintenance sheet). It is important that the plug is removed before plugging an outlet otherwise an hydraulic lock will prevent operation of the opposite port.

## DIMENSIONS



Valve Size	Dimensions (mm)																Connections	
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	Line	Disch.
DDJ	14	14	6	29	43	57	71	19	31	38	38	27	14	80	30	54	1/8"	1/8"
DDU	18	32	7	45	76	108	140	27	44	54	57	27	24	137	42	79	3/8"	1/4"



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