

Farval®

DUALINE® Measuring Valves

Bulletin DL-600

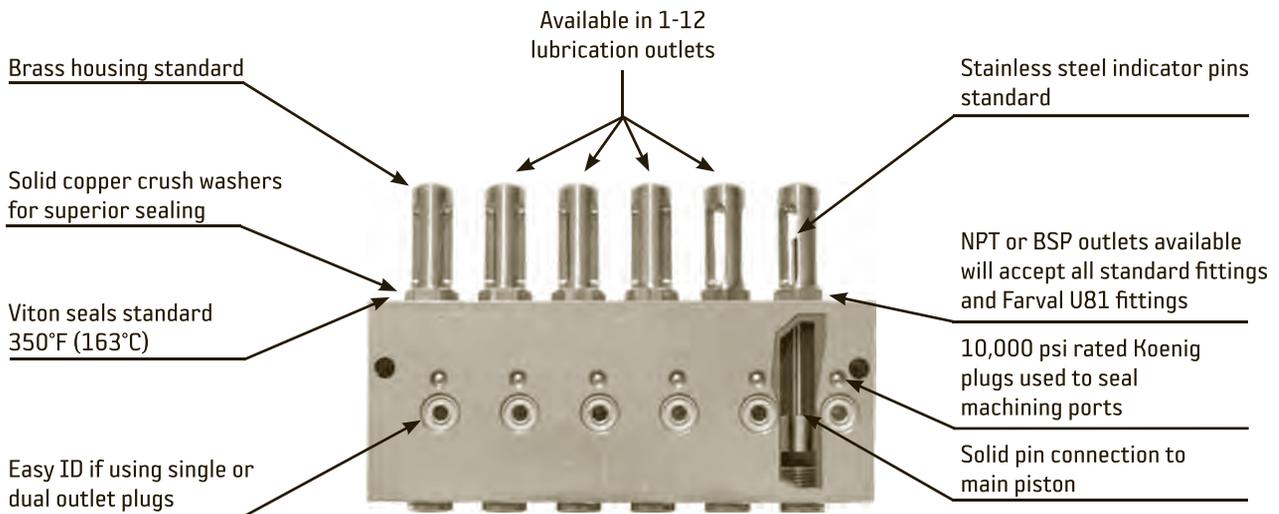
When you need reliable lubrication, stick with Farval.

Dualine® lubricating systems are found in virtually every industry in which continuous duty operation is required. From steel production to pulp and paper, from mining equipment to machine tools, automatic application of the lubricant provides significant benefits to the equipment user.



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- + Over 80 years of experience
- + Ensures lubrication of every bearing and slide
- + Prevents over- and under-lubrication
- + Saves lubrication time
- + Eliminates lubricant contamination
- + Prevents personal injury hazards
- + Promotes continuous high-speed machine operation
- + Reduces repairs and downtime
- + Prolongs machine life
- + Increase production output
- + Reduces operating costs



Every DD50 Series valve is supplied with Teflon/Silicon indicator cover caps and crossport/singling kit

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MEASURING VALVES FOR GREASE OR OIL SYSTEMS

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MEASURING VALVES-GREASE OR OIL SYSTEMS

1. Application

Farval dual line measuring valves distribute and proportion lubricant from the pump to bearing injection points.

2. Description

Measuring valves are manufactured in blocks of one, two, three, or four valves and with one or two discharge ports per valve. The DM series always has one discharge port per valve as shown in Fig. 1 while the DD series can have one or two discharge ports per valve as shown in Fig. 2. Valve bodies are of steel and indicator stems are of stainless steel.

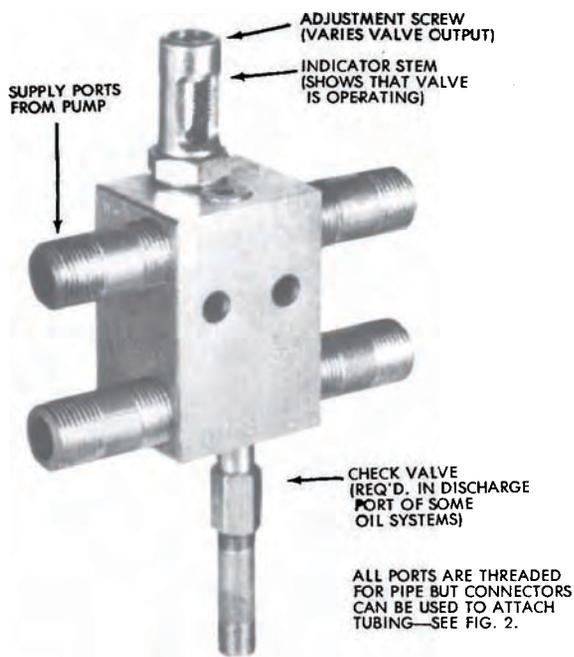


FIG.1 — A typical 1 valve DM block. Each valve has a discharge port on the bottom. A 4 valve block would have four discharge ports.

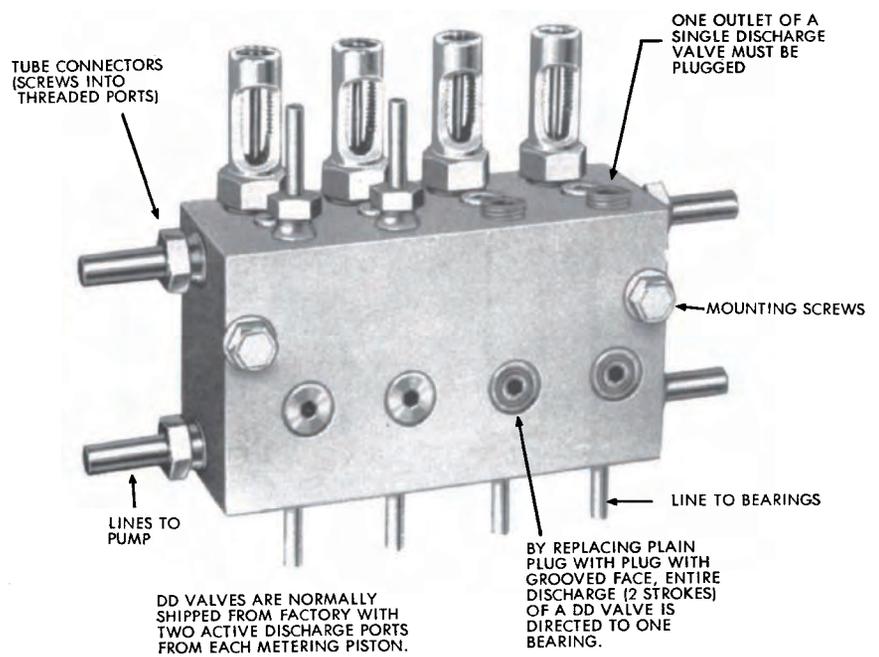
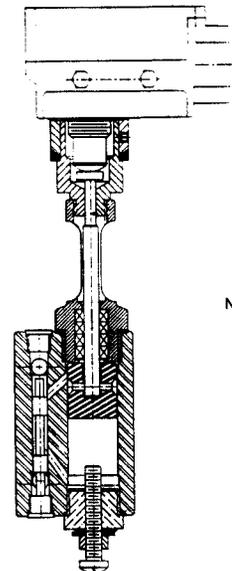


FIG. 2 — A typical 4 valve DD block with six discharge ports. Note how easily the valves can be converted from dual to single discharge by the cross porting kit. It can be later re-converted to dual discharge.

MICRO SWITCH KIT FOR DUALINE VALVES

KIT13025B	FOR DM30 SERIES
KIT13009B	FOR DM60 SERIES
KIT13014B	FOR DD50 & DM50 SERIES
KIT13009B4	FOR DM60 WITH NEMA 4 SWITCH
39145	FOR DD50 & DM50 WITH NEMA 4 SWITCH



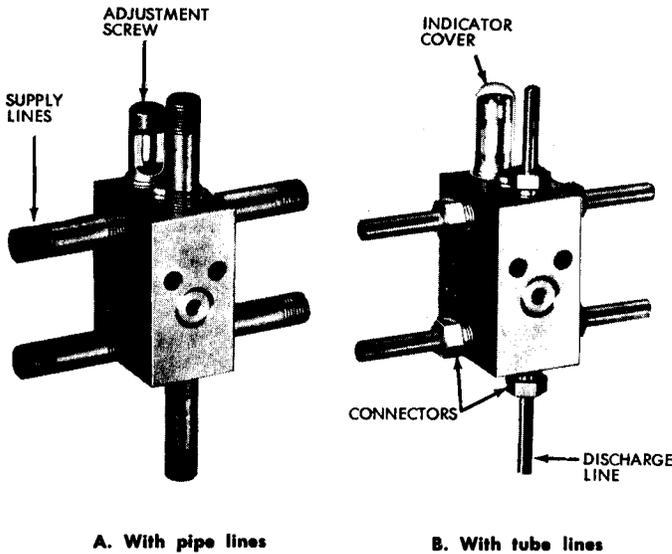
NOTE:
VALVE BODY ASSEMBLY
FOR REFERENCE ONLY

MEASURING VALVES-GREASE OR OIL SYSTEMS

3. Ordering Information

Typical applications with tube connectors, check valves, cross porting kits, and indicator covers in place are illustrated in Figs. 1, 2, and 3. Order both the valves and valve accessories as described below.

NO CHECK VALVES



WITH CHECK VALVES

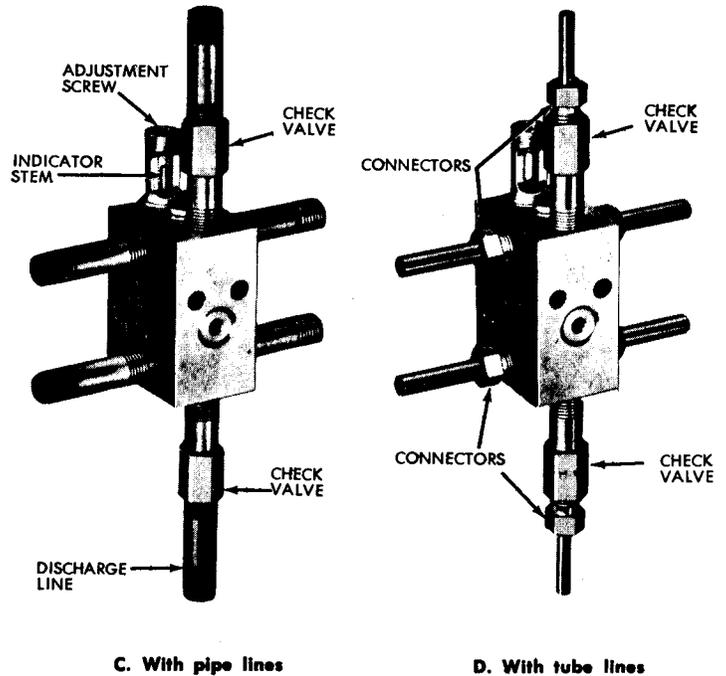


FIG. 3 — Typical measuring valve applications

Order all valve blocks and all connectors for standard size tubing listed in Table I by the code number described on page 3. Order connectors for non-standard size tubing listed in Table I, as well as check valves, cross porting kits, and indicator covers by part number.

TABLE 1 — TUBING SIZES, DISCHARGE PORT CHECK VALVES, AND TUBING CONNECTORS†

MEASURING VALVE	SUPPLY PORT			DISCHARGE PORT				INDICATOR COVER
	PIPE THREAD SIZE	TUBE SIZE †	CONNECTOR (PIPE TO TUBE)	PIPE THREAD SIZE	TUBE SIZE †	CONNECTOR (PIPE TO TUBE)	CHECK VALVE (PIPE TO PIPE)	
DD2X	1/8"	1/4"	U-81B1	1/8"	3/16"	U-81AA1	U-1975A1	U1732A
DD2X Non Std*	1/8"	3/8"	U-83D1	1/8"	1/4" **	U-83B1 **	U-1975B1	U1732A
DD5X	3/8"	3/8"	U-81D3	1/4"	1/4"	U-81B2	U-1972B ***	U1732E
DM3X	3/8"	3/8"	U-81D3	1/8"	1/4"	U-81B1	U-1975B1	U1732C
DM4X, DM5X, DM6X	3/8"	3/8"	U-81D3	1/4"	1/4"	U-81B2	U-1972B ***	U1732D,E,F

*Refer to this line for DD2X valves using 3/8" supply tube or 1/4" discharge tube — Both are non-standard.

Select U-81B1 if check valve is used; U-83B1 if check valve is **NOT used.

***For these valves, order one 1/4" pipe nipple U-151-32 with the check valve.

†Fractions indicate nominal tube size.

NOTES:

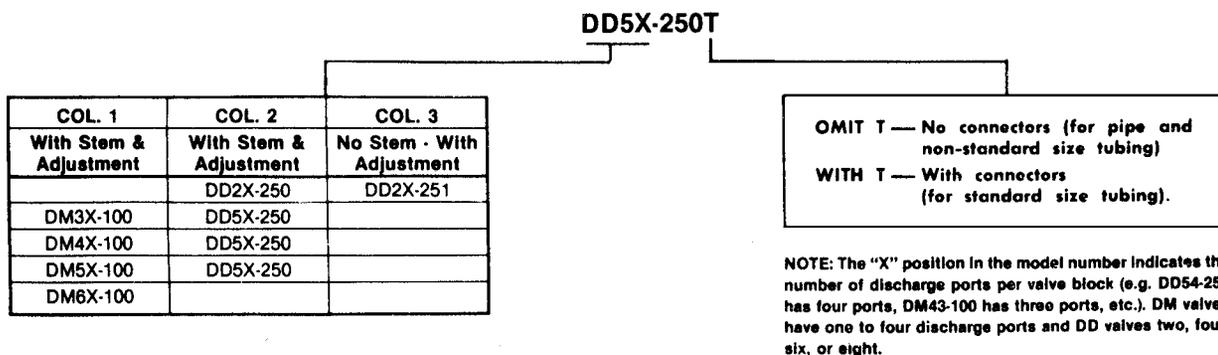
- To prevent line drainage in **oil systems**, during periods when pump is not operating, install a check valve in each discharge port in use:
 - Install U-1975A1 when connecting 1/8" pipe.
 - Install U-1975A1 with U-81AA1 in its outlet port when connecting 3/16" tubing.
 - Install U-1975B1 with U-81B1 in its outlet port when connecting 1/4" tubing.*
- To connect tubing to **discharge ports** in grease systems, install connectors in the port:
 - Install U-81AA1 when connecting 3/16" tubing.
 - Install U-83B1 when connecting 1/4" tubing.*
- To connect tubing to **supply port** in grease or oil systems, install connector in the port:
 - Install U-81B1 when connecting 1/4" tubing.
 - Install U-83D1 when connecting 3/8" tubing.

Each cross porting kit provides enough parts for two valves. All standard U-81 connectors can be ordered by code letter "T" as shown on Page 3.

MEASURING VALVES-GREASE OR OIL SYSTEMS

3. Ordering Information—(cont.)

TYPICAL ORDERING CODE



Following are examples of typical orders for valve blocks shipped from the factory ready for dual discharge.

EXAMPLE 1: A DD22-250 valve block is to be installed in a grease system with pipe distribution lines. Installation is similar to Fig. 3a (page 2).

Order: One each DD22-250 Valve Block

EXAMPLE 2: A DD28-250 valve block is to be installed in a grease system with 1/4" tube supply lines and 3/16" tube discharge lines. Only six discharge ports are needed. See Fig. 2 (page 1).

Order: One each DD28-250T Measuring Valve Block
 One each DDK20-200 Single Outlet Porting Kit

NOTE: Table I shows that in addition to the four valve block, four U-81B1 connectors to the supply ports and eight U-81AA1 connectors from the discharge ports will be furnished (enough connectors for all valve ports are provided for standard tube sizes.) The two extra U-81AA1 connectors can be discarded or used as spares (no credit allowed for return of unused fittings). A single cross porting kit will cross port two valves.

EXAMPLE 3: A DD26-250 valve block is to be installed in an oil system with 3/8" tubing supply lines and 1/4" tubing discharge lines. The installation will be subject to unusually severe contamination - hence indicator covers should be ordered.

Order: One each DD26-250 Measuring valve block
 Six each U-1975B1 Check valves for 1/4" tubing
 Six each U-81B1 Connectors for 1/4" tubing
 Four each U-83D1 Connectors for 3/8" tubing
 Three each U-1732A Indicator covers

NOTE: The discharge ports must have check valves (page 6, note 1) since this is an oil system. Note that U-81 connectors can only be used in specially machined ports. In this case, the supply ports are machined for 1/4" tubing with U-81B1 connectors. For tubing other than 1/4", U-83 connectors must be used for this size measuring valve.

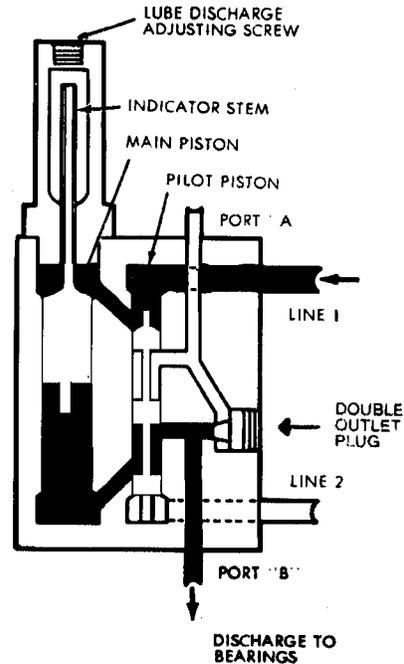
MEASURING VALVES-GREASE OR OIL SYSTEMS

4. How the Measuring Valves Operate

DD VALVES - DOUBLE OUTLET OPERATING SEQUENCE

Operating sequence of the DD valves is described below. DM valves operate in the same manner except that the upward and downward discharge of the main piston is directed out a single port at position "B".

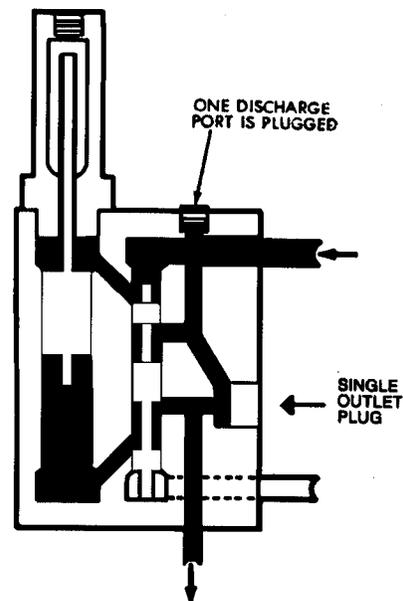
- A. Pressurized lubricant entering valve thru line 1 forces pilot piston down, allowing pressure to be applied to top of main piston. Main piston begins to move down.
- B. Main piston moving down under pressure forces lubricant from its chamber, past the lower land of the pilot piston and out port "B" to the bearings.
- C. During the next operating period, pressure is applied to line 2 and the above operating sequence repeated with the pistons moving in the opposite direction. This time lube moves out port "A".
- D. Indicator stem shows when valve is operating. Valve discharge can be varied by adjusting screw in packing gland to alter main piston travel.



DD VALVES - SINGLE OUTLET OPERATING SEQUENCE

- A. When a Farval dual line DD lubricating valve is cross-ported (converted to single discharge) the operational sequence of the valve itself does not change. As shown above, supply lines are pressurized alternately and piston movement remains the same. The only difference is that the total discharge (2x disc./piston stroke) of each valve operation is directed out one outlet to a single bearing.

NOTE: ONE DISCHARGE OUTLET MUST BE PLUGGED WHEN SINGLE OUTLET IS DESIRED.



MEASURING VALVES-GREASE OR OIL SYSTEMS

4. How the Measuring Valves Operate—(cont.)

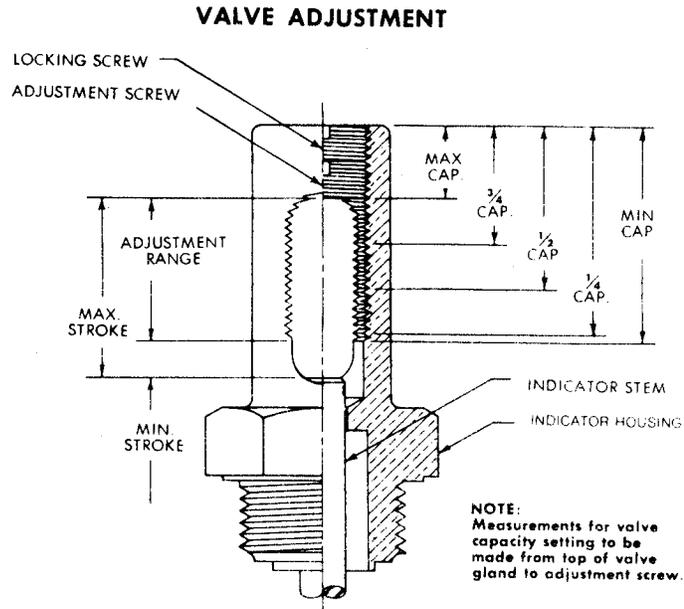
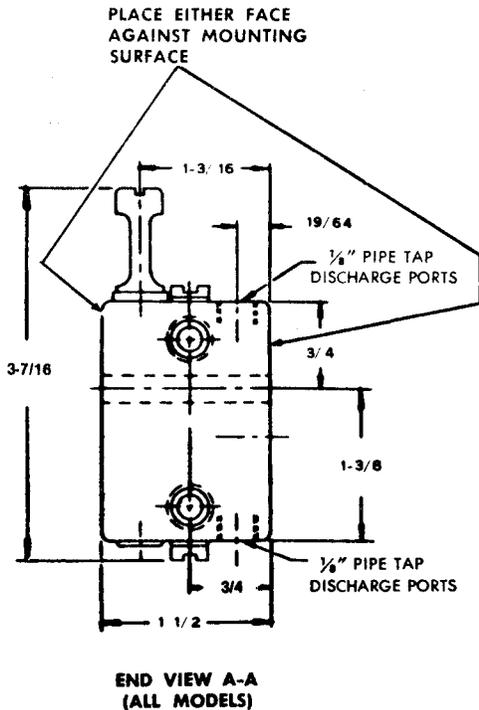
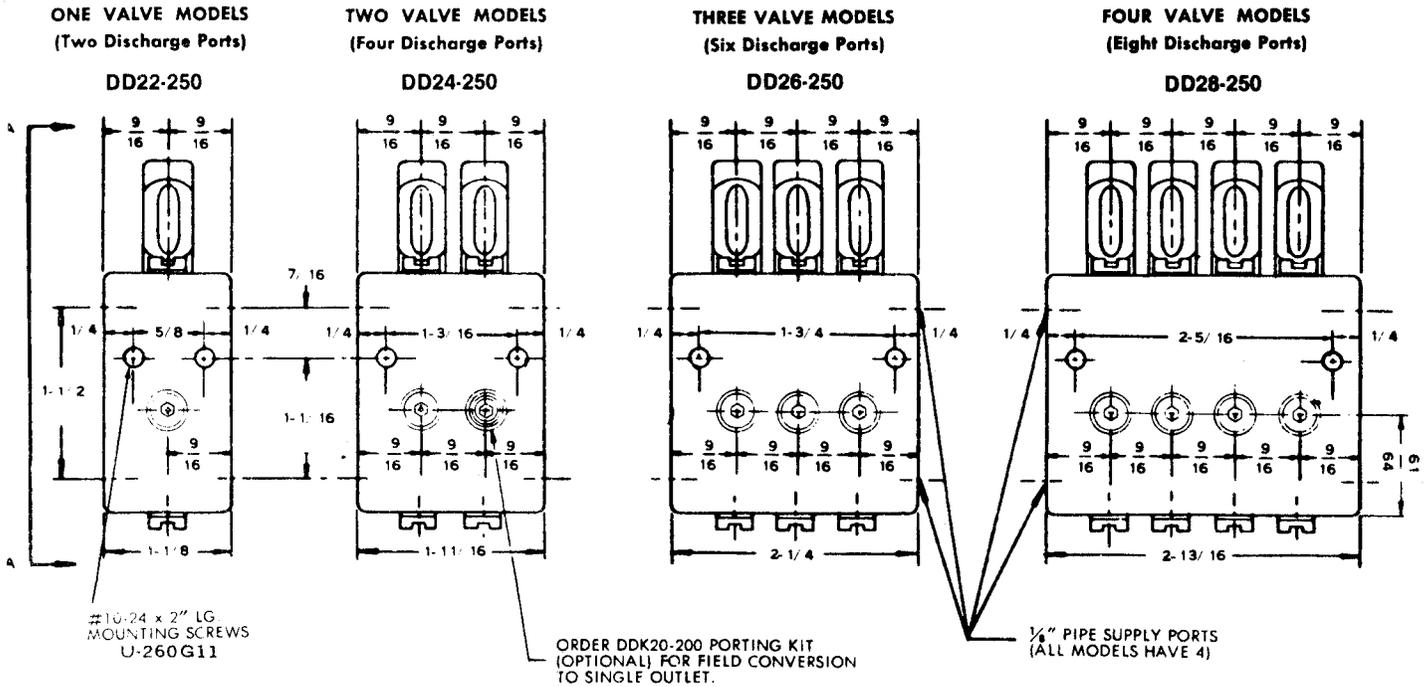


TABLE I — VALVE DISCHARGE AND VALVE ADJUSTMENT

VALVE MODEL	DISCHARGE PER PISTON STROKE				Discharge Change Per Adj. Screw Revolution		No. of Revolutions of Adj. Screw in Range	Total Adj. Range— Inches	VALVE CAPACITY SETTING—INCHES				
	Cubic Inches		Fluid Ounces						Max.	3/4	1/2	1/4	Min.
	Min.	Max.	Min.	Max.	Cu. In.	Oz.							
DD2X	.006	.036	.003	.020	.0024	.0013	17.5	0.45	1/4	27/64	19/32	49/64	7/8
DD5X	.011	.289	.006	.160	.0114	.0063	25.2	1.21	3/8	49/64	1 1/8	1-31/64	1 1/2
DM3X	.012	.072	.007	.040	.0052	.0029	11.25	9/16	3/8	35/64	23/32	57/64	15/16
DM4X	.036	.135	.020	.075	.0072	.0040	13.75	1 1/16	3/8	39/64	27/32	1 1/16	1 1/16
DM5X	.075	.306	.042	.170	.0103	.0057	22.5	1 1/8	3/8	47/64	1 3/32	1 29/64	1 1/2
DM6X	.180	.800	.100	.443	.033	.0194	17.4	3 1/32	1/2	13/16	1 1/8	1 7/16	1 15/32

MEASURING VALVES-GREASE OR OIL SYSTEMS

DD20 VALVES WITH INDICATOR STEM AND WITH ADJUSTMENT



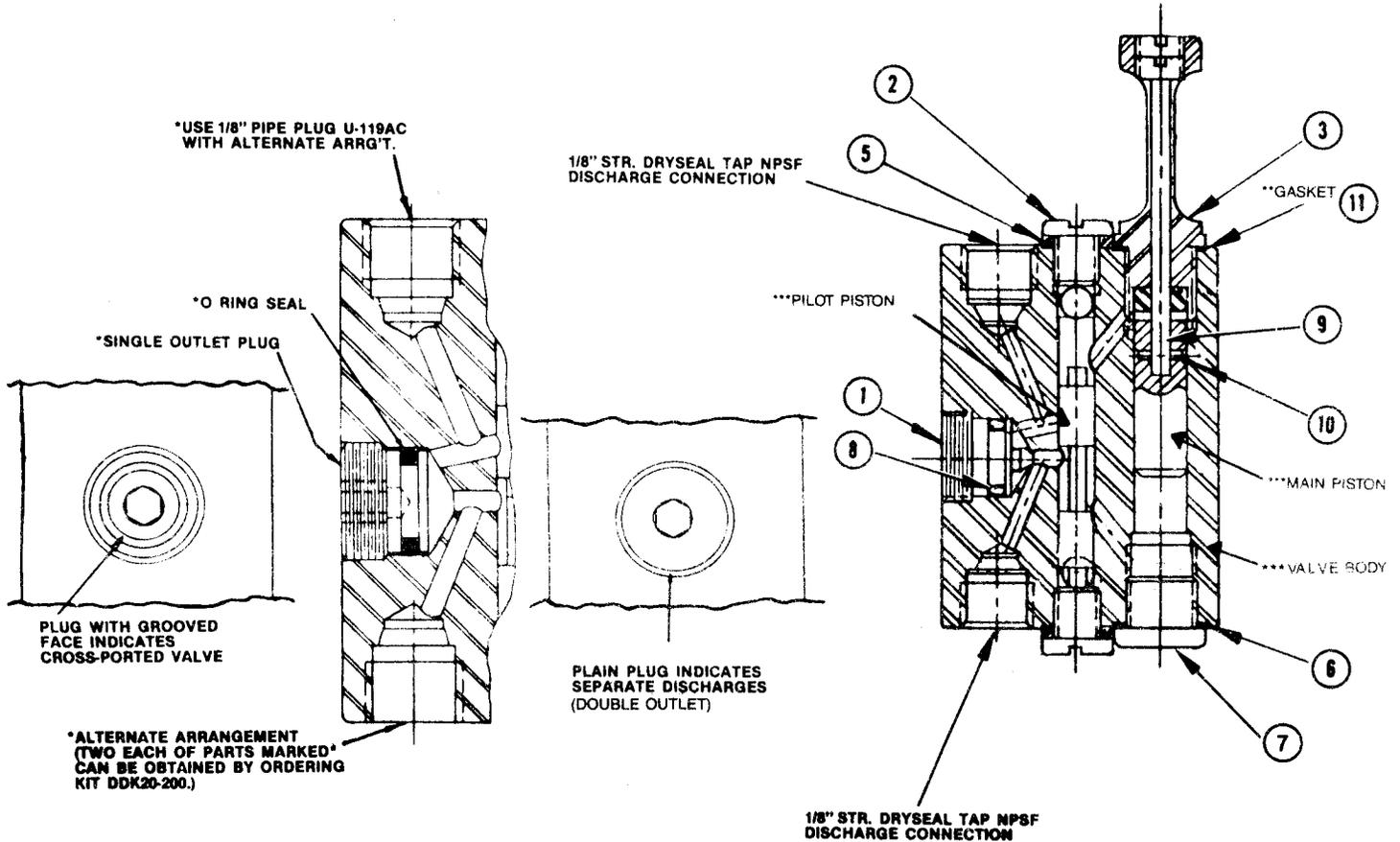
NOTE:

- To prevent line drainage **in oil systems** during periods when pump is not operating, install a check valve in each discharge port in use:
 - Install U-1975A1 for 1/8" pipe or 3/16" tubing
 - Install U-1975B1 for 1/4" tubing
- Install connectors in measuring valve **discharge ports** or **check valve** outlet ports to connect tubing:
 - Install U-81AA1 for 3/16" tubing
 - Install U-81B1 for 1/4" tubing if check valve is used
 - Install U-83B1 for 1/4" tubing if check valve is not used
- To connect tubing to **supply port** install connectors:
 - Install U-83D1 for 3/16" tubing
 - Install U-81B1 for 1/4" tubing
- To combine the output of the two discharge ports of any valve, replace DD20-1011-200 double outlet porting plug with DDK20-200 single outlet porting kit. See next page for installation. Adjust valve for proper discharge.
- Lube discharged from each valve port per piston stroke is adjustable to the values given in the table.

MODEL No.	DISCHARGE PER PISTON STROKE			
	Cubic Inches		Fluid Ounces	
	MIN.	MAX.	MIN.	MAX.
DD2X-250	.006	.036	.003	.020

MEASURING VALVES-GREASE OR OIL SYSTEMS

DD20 VALVES WITH INDICATOR STEM AND WITH ADJUSTMENT



IF VALVE IS DISASSEMBLED, REINSTALL PISTONS IN SAME BORE FROM WHICH THEY WERE REMOVED WITH SAME END FACING ADJUSTMENT SCREW.

**INCLUDED WITH ITEM ③

***THESE ITEMS CANNOT BE ORDERED INDIVIDUALLY.

ITEM NO.	DESCRIPTION	PART NO.	NUMBER REQUIRED SERIES 250 - VALVE			
			DD 22	DD 24	DD 26	DD 28
1	PORTING PLUG - DOUBLE OUTLET	DD20-1011-200	1	2	3	4
2	FILLISTER HD. MACH. SCREW	DM14-1403	2	4	6	8
3	VISUAL INDICATOR KIT	LA-10618	1	2	3	4
4	HEX HD. MTG. SCREW (not shown)	U-260G11	2	2	2	2
5	COPPER WASHER - PILOT PISTON	U-1305N	2	4	6	8
6	COPPER WASHER - MAIN BORE	U-1305U	1	2	3	4
7	CLOSURE PLUG	U-1523A	1	2	3	4
8	"O" RING SEAL	32779-1	1	2	3	4
9	INDICATOR STEM 316 S.S.	FT-1518-7	1	2	3	4
10	SPIROL PIN	U-1220-A2	1	2	3	4
	GASKET	U-217-B	1	2	3	4

NOTE: Replacement of Packing Glands for DD20—
Order KIT LA-10618 for 200 Series.
Order KIT LA-10619 for 201 Series.

MEASURING VALVES-GREASE OR OIL SYSTEMS

DD20 VALVES WITHOUT INDICATOR STEM BUT WITH ADJUSTMENT

ONE VALVE MODELS (Two Discharge Ports)

DD22-251

TWO VALVE MODELS (Four Discharge Ports)

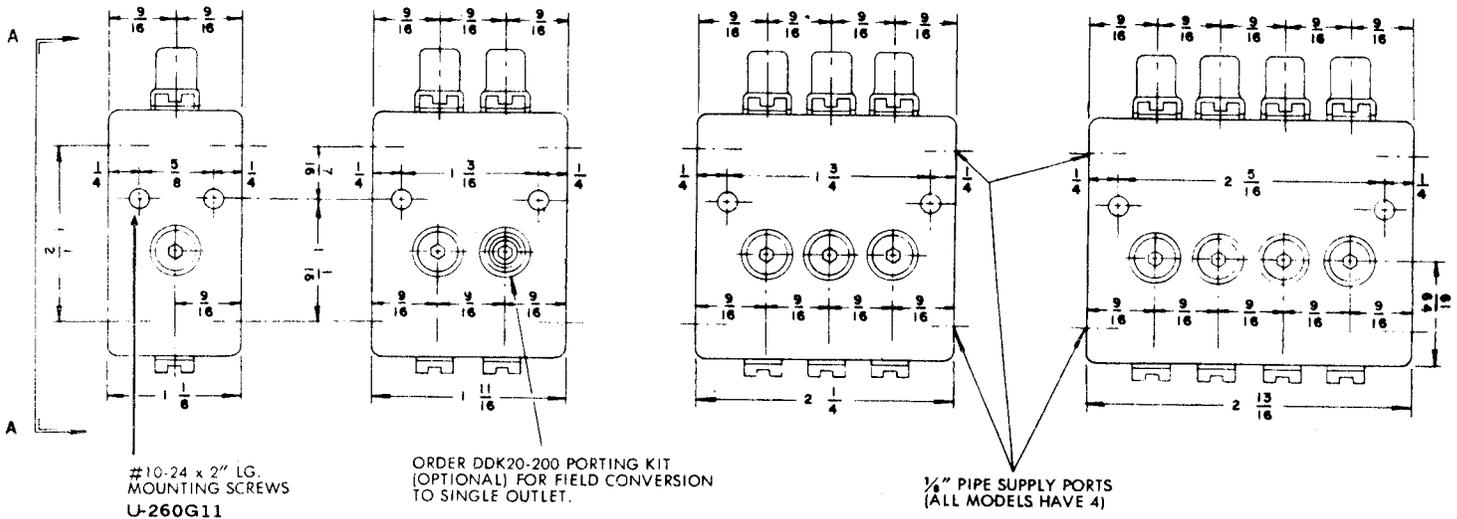
DD24-251

THREE VALVE MODELS (Six Discharge Ports)

DD26-251

FOUR VALVE MODELS (Eight Discharge Ports)

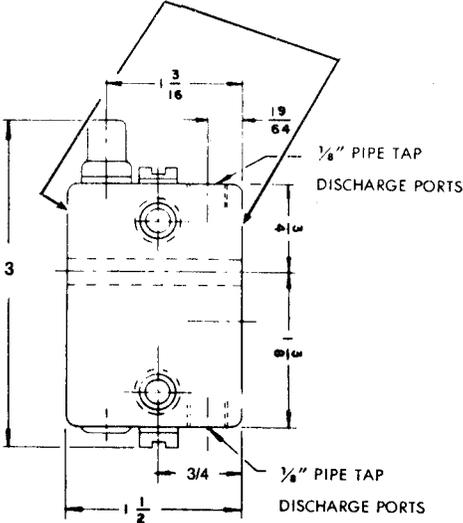
DD28-251



NOTE:

- To prevent line drainage **in oil systems** during periods when pump is not operating, install a check valve in each discharge port in use:
 - Install U-1975A1 for 1/8" pipe or 3/16" tubing
 - Install U-1975B1 for 1/4" tubing
- Install connectors in measuring valve **discharge ports** or **check valve** outlet ports to connect tubing:
 - Install U-81AA1 for 3/16" tubing
 - Install U-81B1 for 1/4" tubing if check valve is used
 - Install U-83B1 for 1/4" tubing if check valve is not used
- To connect tubing to **supply port** install connectors:
 - Install U-83D1 for 3/16" tubing
 - Install U-81B1 for 1/4" tubing
- To combine the output of the two discharge ports of any valve, replace DD20-1011-200 double outlet porting plug with DDK20-200 single outlet porting kit. See next page for installation. Adjust valve for proper discharge.
- Lube discharged from each valve port per piston stroke is adjustable to the values given in the table.

PLACE EITHER FACE AGAINST MOUNTING SURFACE



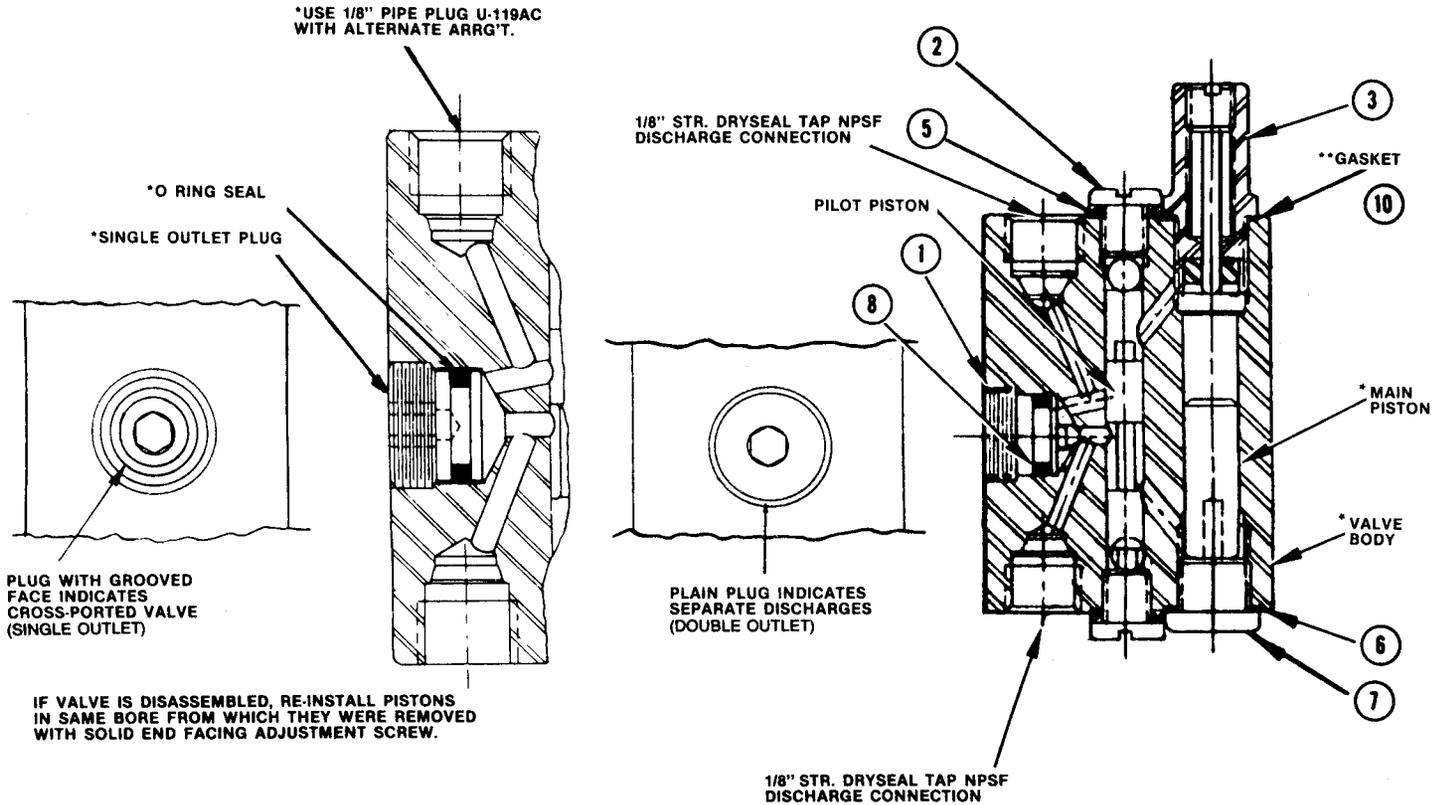
END VIEW A-A
(ALL MODELS)

MODEL No.	DISCHARGE PER PISTON STROKE			
	Cubic Inches		Fluid Ounces	
	MIN.	MAX.	MIN.	MAX.
DD2X-251	.006	.036	.003	.020

MEASURING VALVES-GREASE OR OIL SYSTEMS

DD20 VALVES WITHOUT INDICATOR STEM BUT WITH ADJUSTMENT

*ALTERNATE ARRANGEMENT
(TWO EACH OF PARTS MARKED*
CAN BE OBTAINED BY ORDERING
KIT DDK20-200.)



*THESE ITEMS CANNOT BE ORDERED INDIVIDUALLY.

**INCLUDED WITH ITEM ③

ITEM NO.	DESCRIPTION	PART NO.	NUMBER REQUIRED SERIES 251 - VALVE			
			DD 22	DD 24	DD 26	DD 28
1	PORTING PLUG - DOUBLE OUTLET	DD20-1011-200	1	2	3	4
2	FILLISTER HD. MACH. SCREW	DM14-1403	2	4	6	8
3	ADJUSTABLE INDICATOR KIT	LA-10619	1	2	3	4
4	HEX HD. MTG. SCREW (not shown)	U-260G11	2	2	2	2
5	COPPER WASHER - PILOT PISTON	U-1305N	2	4	6	8
6	COPPER WASHER - MAIN BORE	U-1305U	1	2	3	4
7	CLOSURE PLUG	U-1523A	1	2	3	4
8	"O" RING SEAL	32779-1	1	2	3	4
10	GASKET	U-217-B	1	2	3	4

MEASURING VALVES-GREASE OR OIL SYSTEMS

DD50 VALVES WITH INDICATOR STEM AND WITH ADJUSTMENT

ONE VALVE MODELS
(Two Discharge Ports)

DD52-250

TWO VALVE MODELS
(Four Discharge Ports)

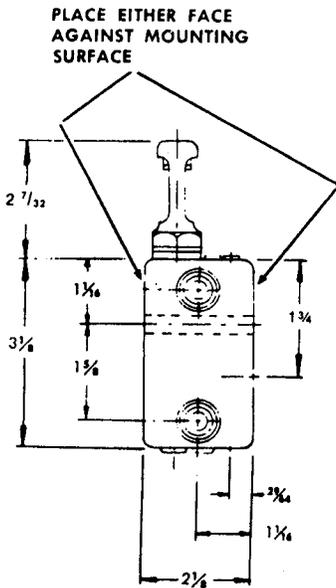
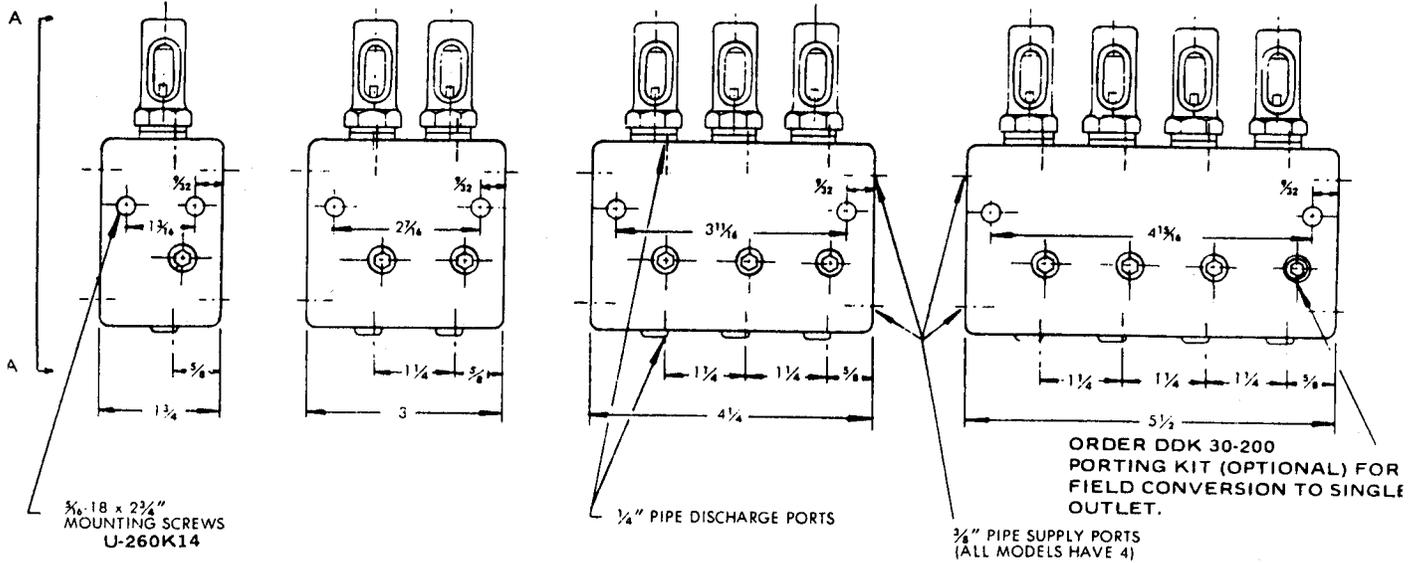
DD54-250

THREE VALVE MODELS
(Six Discharge Ports)

DD56-250

FOUR VALVE MODELS
(Eight Discharge Ports)

DD58-250



END VIEW A-A
(ALL MODELS)

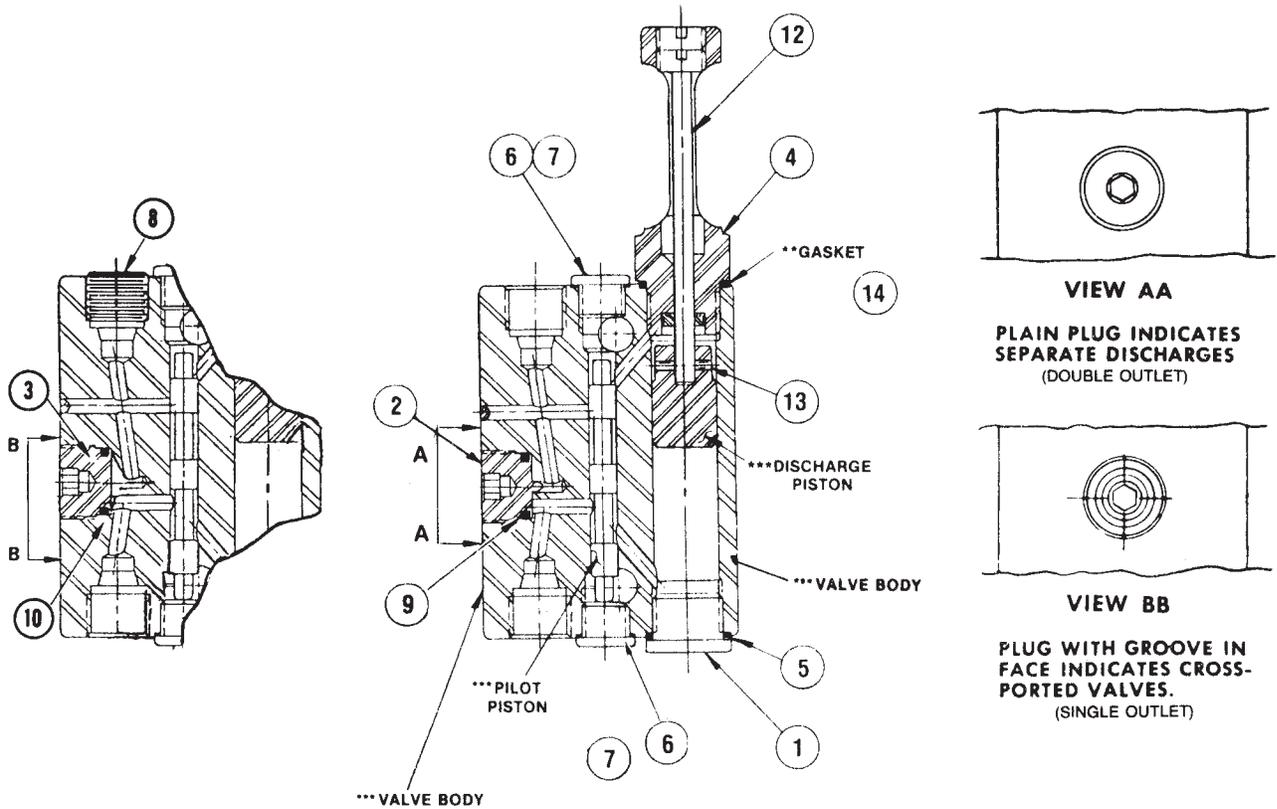
NOTES:

1. To prevent line drainage in oil systems during periods when pump is not operating, install check valve U-1972B with a U-151-22 nipple in each discharge port in use which is located more than five feet above or below the distribution lines.
2. To connect tubing, (all ports are machined for pipe), install U-81 connectors in the port or check valve - U-81D3 in each supply port for 3/8" tubing and U-81B2 in each discharge port or discharge port check valve for 1/4" tubing. The standard U-81 connectors can be ordered by code number as shown on Page 3.
3. To combine the output of the two discharge ports of any valve, replace DD30-1011-200 double outlet porting plug with DDK30-200 single outlet porting kit. See next page for installation. Adjust valve for proper discharge.
4. Lube discharge from each valve port is adjustable to the values given in the table.

MODEL No.	DISCHARGE PER PISTON STROKE			
	Cubic Inches		Fluid Ounces	
	MIN.	MAX.	MIN.	MAX.
DD5X-250	.011	.289	.006	.180

MEASURING VALVES-GREASE OR OIL SYSTEMS

DD50 VALVES WITH INDICATOR STEM AND WITH ADJUSTMENT



**INCLUDED WITH ITEM 4.

***THESE ITEMS CANNOT BE ORDERED INDIVIDUALLY.

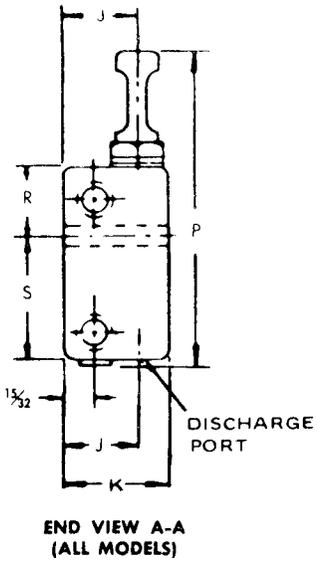
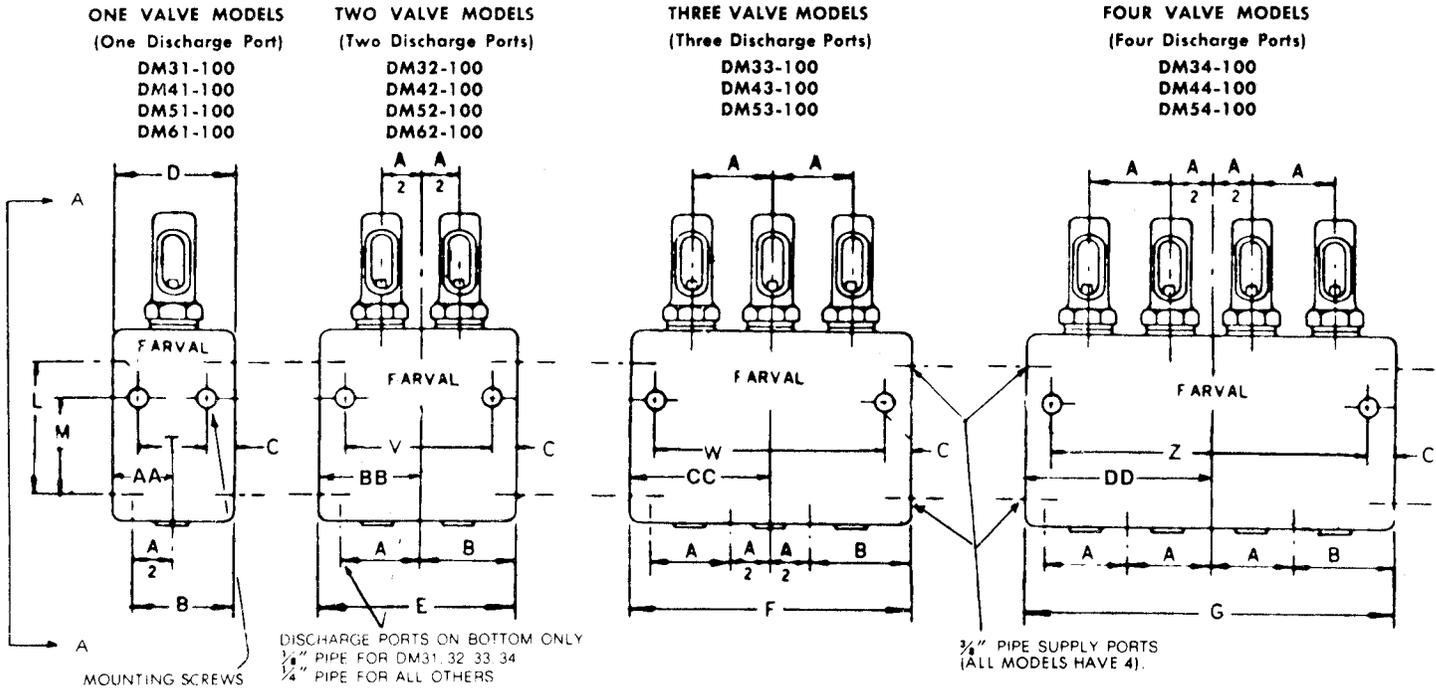
ITEM NO.	DESCRIPTION	PART NO.	NUMBER REQUIRED SERIES 250 VALVES			
			DD 52	DD 54	DD 56	DD 58
1	DISCHARGE BORE PLUG	U-1522G	1	2	3	4
2	DOUBLE OUTLET PORTING PLUG	DD30-1011-200	1	2	3	4
* 3	SINGLE OUTLET PORTING KIT	DDK30-200	1	2	3	4
4	VISUAL INDICATOR KIT	LA-106481	1	2	3	4
5	COPPER WASHER - MAIN BORE	U-1305W	1	2	3	4
6	COPPER WASHER - PILOT PISTON	U-1305U	2	4	6	8
7	INLET BORE PLUG	U-1523A	2	4	6	8
†8	HEX. SOC. PIPE PLUG	U-119BC	1	2	3	4
9	"O" RING SEAL VITON	U-1720-013S	1	2	3	4
†10	"O" RING SEAL VITON	U-1720-013S	1	2	3	4
11	THREAD FORMING MOUNTING SCREWS (NOT SHOWN)	U-260K-14	2	2	2	2
12	INDICATOR STEM 416 S.S.	U-1209J	1	2	3	4
13	SOLID CROSS PIN	U-1220-C6	1	2	3	4
14	GASKET	U-1305W	1	2	3	4

* (Optional) see alternate arrangement.

† Included in porting kit - see Paragraph 3, page 10.

MEASURING VALVES-GREASE OR OIL SYSTEMS

DM30, DM40, DM50, AND DM60 VALVES WITH INDICATOR STEM AND WITH ADJUSTMENT



MODEL NO.	DISCHARGE PER PISTON STROKE				MOUNTING SCREWS	MOUNTING SCREW PART NO.
	CUBIC INCHES		FLUID OUNCES			
	MIN.	MAX.	MIN.	MAX.		
DM-31, 32, 33, 34	.012	.072	.007	.040	5/16-18x2	U-260K11
DM-41, 42, 43, 44	.036	.135	.020	.075	5/16-18x2	U-260K11
DM-51, 52, 53, 54	.075	.306	.042	.170	5/16-18x2-1/4	U-260K13
DM-61, 62	.180	.800	.100	.443	5/16-18x2-3/4	U-260K14

NOTES:

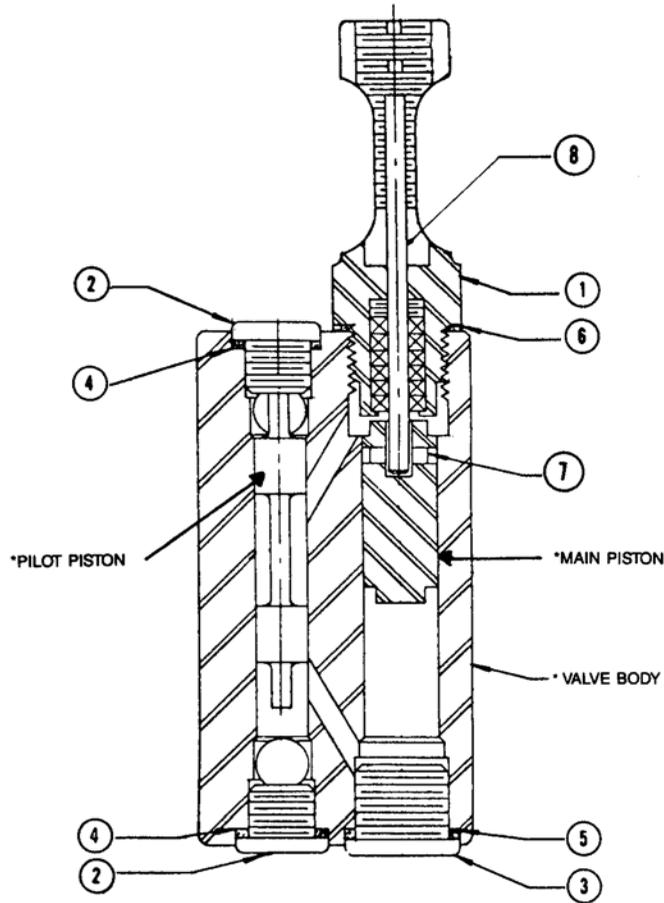
- To prevent line drainage in oil systems during periods when pump is not operating, install check valves in each discharge port which is located more than five feet above or below the distribution lines. Install U-1975B1 in 1/8" ports of DM3X-100 valves and U-1972B with a U-151-22 pipe nipple in 1/4" port of all other valves.
- To connect tubing (all ports are machined for pipe), install U-81 connectors in the port or check valve. For 3/8" tubing to the supply port, install U-81D3. For 1/4" tubing from the discharge port or discharge port check valve, install U-81B1 if valve is Dm3X-100 and U-81B2 for all other valves.
- The DM62 valve is also furnished as series No. 101 (DM62-101) which is internally drilled to connect both discharge chambers to one outlet only in order to obtain a single outlet valve of .200 fluid ounces min. to .886 fluid ounces max. discharge capacity.**
- Model DM32 has only one mounting hole.
- The last number in the valve size number indicates the number of outlets per block.

SIZE	DIMENSIONS IN INCHES																	
	A	B	C	D	E	F	G	J	K	L	M	P	R	S	T	V	W	Z
DM-31	1 1/8	1 1/16	1 3/32	1 3/4	—	—	—	1 3/32	1 1/2	1 3/8	1 3/32	3 1/16	2 1/32	1 11/32	1 3/8	—	—	—
DM-32, 33, 34	1 1/8	1 1/16	1 1/16	—	2 7/8	4	5 1/8	1 3/32	1 1/2	1 3/8	1 3/16	3 1/16	7/8	1 5/8	—	Note 4	1 1/8	2 1/4
DM-41, 42, 43, 44	1 1/4	1 1/16	1 3/32	1 11/16	3 3/8	4 1/16	5 1/16	1 3/32	1 1/16	2 3/16	1 1/2	4 3/4	1 3/32	1 29/32	1 1/16	2 3/8	3 3/8	4 13/16
DM-51, 52, 53, 54	1 1/16	1 7/32	1 3/32	2 1/8	3 3/8	5	6 1/16	1 3/32	1 3/4	2 3/16	1 1/16	5 1/16	1 3/2	2 3/32	1 3/8	2 3/4	4 3/16	5 3/8
DM-61, 62	1 13/16	2 1/32	1 3/32	2 3/8	4 1/4	—	—	1 11/32	2 1/4	2 3/16	1 1/16	5 13/16	1 1/2	2 7/32	1 5/8	3 3/8	—	—

SIZE	DIMENSIONS IN INCHES			
	AA	BB	CC	DD
DM-41, 42, 43, 44	1	1 5/8	2 1/4	2 7/8

MEASURING VALVES-GREASE OR OIL SYSTEMS

DM30, DM40, DM50, AND DM60 VALVES WITH INDICATOR STEM AND WITH ADJUSTMENT



*THESE ITEMS CANNOT BE ORDERED INDIVIDUALLY.

ITEM	DESCRIPTION OF PART	SIZE OF MANIFOLD			
		DM3X-100	DM4X-100	DM5X-100	DM6X-100
1	PACKING GLAND ASSEMBLY	PG30-1	PG40-1	PG50-1	PG60-1
2	INLET BORE PLUG	U-1523A	U-1523A	U-1523A	U-1523A
3	DISCHARGE BORE PLUG	U-1522D	U-1522E	U-1522G	U-1522K
4	INLET PLUG WASHER	U-1305U	U-1305U	U-1305U	U-1305U
5	DISCHARGE PLUG WASHER	U-1305AB	U-1305V	U-1305W	U-1305AA
6	PACKING GLAND GASKET	U-217E	U-217E	U-217F	U-217N
7	SPIROL PIN	U-1220-A3	U-1220-A3	U-1220-C6	U-1219-C10
8	INDICATOR STEM	U-1209-K	U-1209-D	U-1209-J	U-1209A-L

NOTES: Packing Gland has permanent packing assembled in it.
For Mounting Screws - See Table on page 12.

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lube requirement...
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Injectors



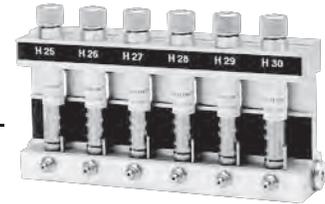
Flowmeters



Dualine



Oil Recovery Unit



SureFire-PDI



Refillable
Single Point

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