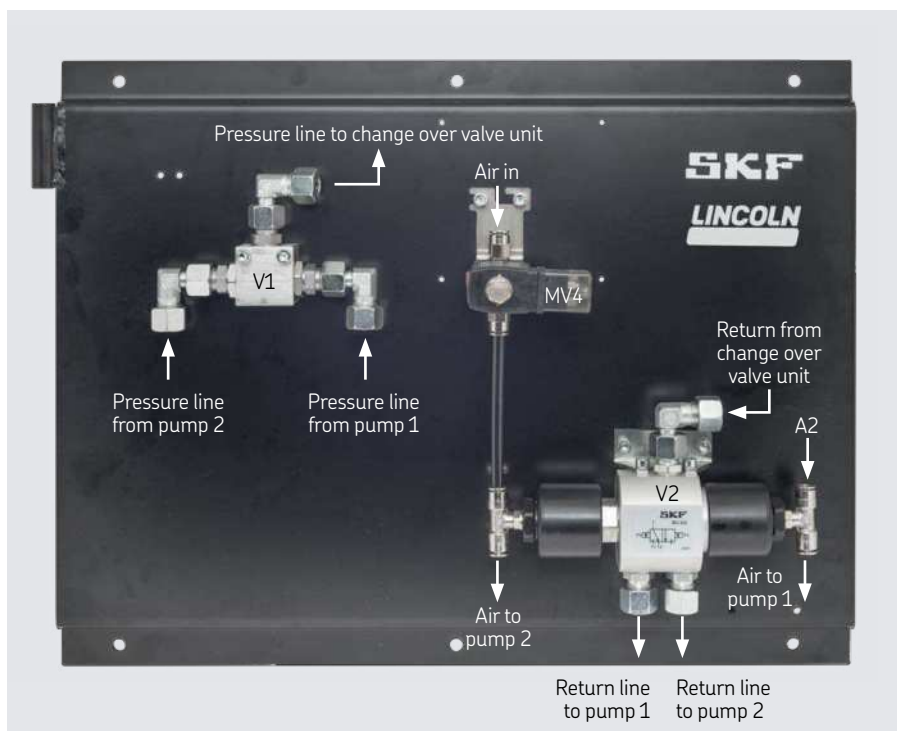


Dualset valve assembly

For air-operated barrel pumps



SKF Lincoln Dualset valve assembly enables you to operate an additional barrel pump unit next to the main pump unit. This functionality is valuable when grease consumption is high and automatic barrel change is required. Dualset provides confidence of reliable operation without interruptions also in case of pump failures, specifically important for critical applications.

The Dualset valve assembly can be used with all type of lubrication systems which are utilizing an air-operated barrel pump and a control center that supports the Dualset feature. In addition to SKF control centers, like ST-1340, ST-1440, ST-1240 or ST-2240, Dualset can also be controlled by customer's DCS. Dualset includes a hose kit for Maxilube / MPB pump with "plug and play" connections.

Features and benefits

- Automatic pump change while barrel empty
- Redundant operation in case of pump failure
- Can be added to many existing pumping stations
- Dualset support included on IF-105, ST-1340, ST-1440, ST-1240 and ST-2240 controls

Applications

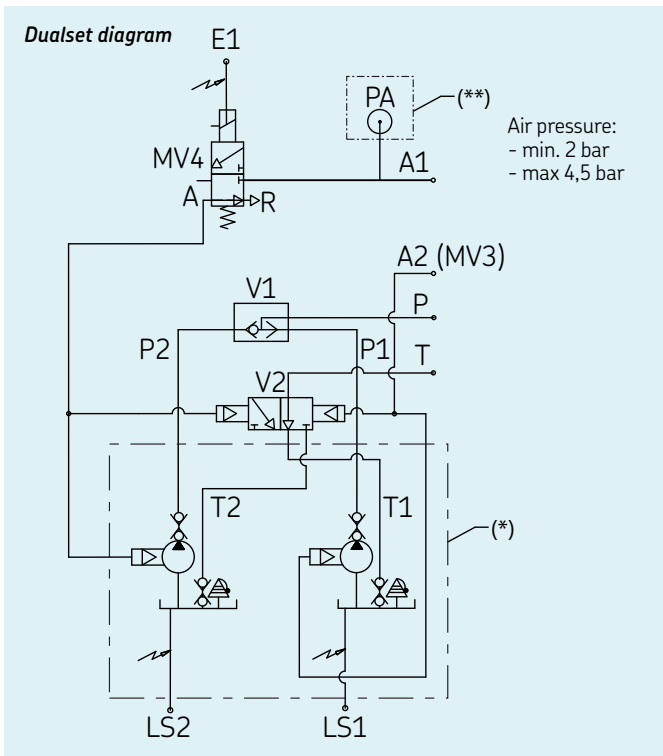
- Steel industry
- Mining
- Pulp&Paper industry

Product data

Order number	12386002
Inlet air pressure	2 to 4,5 bar; 29 to 65 psi
Max grease pressure	300 bar; 4351 psi
Air connections	Ø 8 mm push-in connectors
Grease inlet connections (P, P1, P2)	Ø 12 mm DIN2353 / ISO8434-1
Grease return connections (T, T1, T2)	Ø 12 mm DIN2353 / ISO8434-1
Control voltage/power (MV4):	24 V DC / 8 W
Temperature	0 to +50 °C, +32 to +122 °F
Protection class	IP65
Dimensions (w x h x d)	566 x 432 x 107 mm 22.28 x 17.0 x 4.21 in

Dualset with installation pipes





Symbols

PA	Main air supply
A	Air to pump 2 / valve V2
A1	Air to MV4 valve
A2	Air to pump 1 / valve V2
MV3	Pump 1 air valve
MV4	Pump 2 air valve
P	Grease pressure line
P1	Grease from pump 1
P2	Grease from pump 2
T	Grease return line
T1	Grease return line to barrel 1
T2	Grease return line to barrel 2
R	Breather
V1	Shuttle valve
V2	Grease return valve
LS1	Electric connection, low level sensor 1 (pump 1)
LS2	Electric connection, low level sensor 2 (pump 2)
E1	Electric connection, control system signal to MV4
*	Pump and lidset are not included in valve assembly
**	Main air supply not included

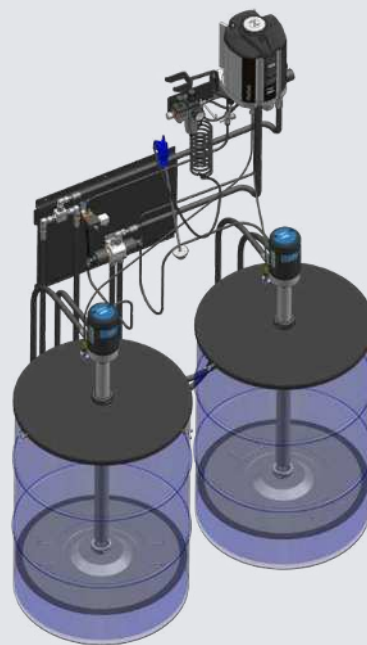
- 1 When the main pump low level limit is activated, then the alarm signal goes to the control center
- 2 Control system closes the main pump's air valve (MV3) and opens air valve (MV4) enabling the second pump to continue
- 3 Grease pressure from active pump will affect to valve (V1) and allow grease flow to dual-line system pumping station with normal change-over valve
- 4 Opening of secondary pump air valve (MV4) will also result in air flow to the return line control valve (V2) allowing pressure discharge to correct barrel
- 5 The empty grease barrel can be changed. Automatic pump change shall be performed again when needed



NOTE

Further technical information,
about Maxilube
PUB 18266 EN
about MPB pump unit
PUB 17178 EN

Dualset with Maxilube pumping station



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