Base Load Power Hub (BLPH)

SDV/BDV AND TIGHT SHUT-OFF XV VALVES

PNEUMATIC DIAGRAM and WIRING

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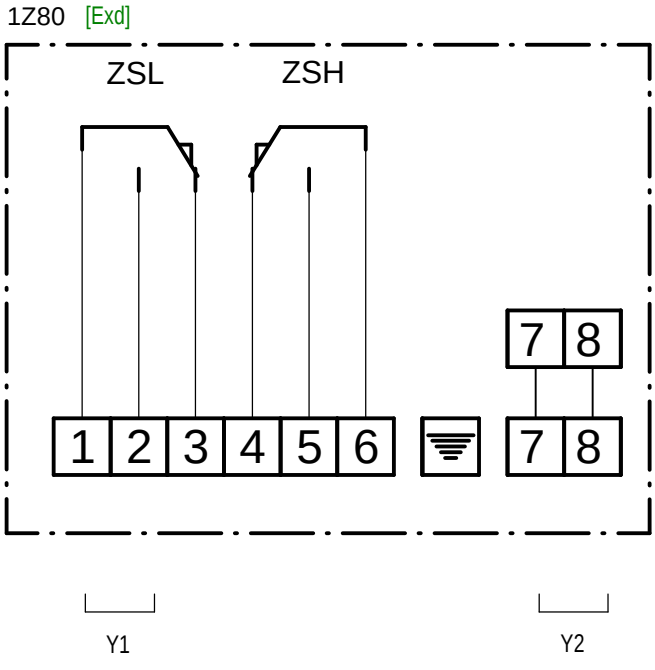
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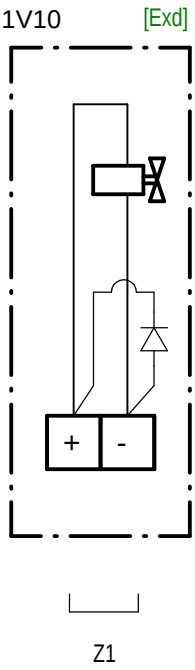
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Fluitek Valves

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THE LIMIT SWITCHES ARE SHOWN WITH
THE VALVE IN INTERMEDIATE POSITION

closed contact
open contact

limit switch		Limit switch function VALVE POSITION open	interm.	closed
ZSL	1-2 NO			■
	1-3 NC	■	■	
ZSH	6-5 NO	■		
	6-4 NC		■	■

RFS Item	Tag No.
1	50-XV-005

Connection	Description	Size
Y1	LIMIT SWITCH BOX ELECTRIC CONNECTION	M20x1.5 (Female)
Y2	LIMIT SWITCH BOX ELECTRIC CONNECTION (plugged)	M20x1.5 (Female)
Z1	SOLENOID VALVE ELECTRIC CONNECTION	M20x1.5 (Female)

Item	Description	Manufacturer, Model and Features
1V10	SOLENOID VALVE	BIFOLD, mod. FP06P-S1-04-32-NU-V-77A-24D-57 - ATEX/IECEx - 24Vdc, 5,7 Watt - Exd IIC T4/T6 - IP66
1Z80	LIMIT SWITCHES BOX	SOLDO, mod. SQN120E-20X23L7- ATEX/IECEx - Ex II 2GD Ex d IIC T4/T6 - IP66
ZSL	SPDT HERMETICALLY SEALED MAGNETIC PROXIMITY SWITCH	Rating [5A@250Vac / 5A@28Vdc]
ZSH	SPDT HERMETICALLY SEALED MAGNETIC PROXIMITY SWITCH	Rating [5A@250Vac / 5A@28Vdc]

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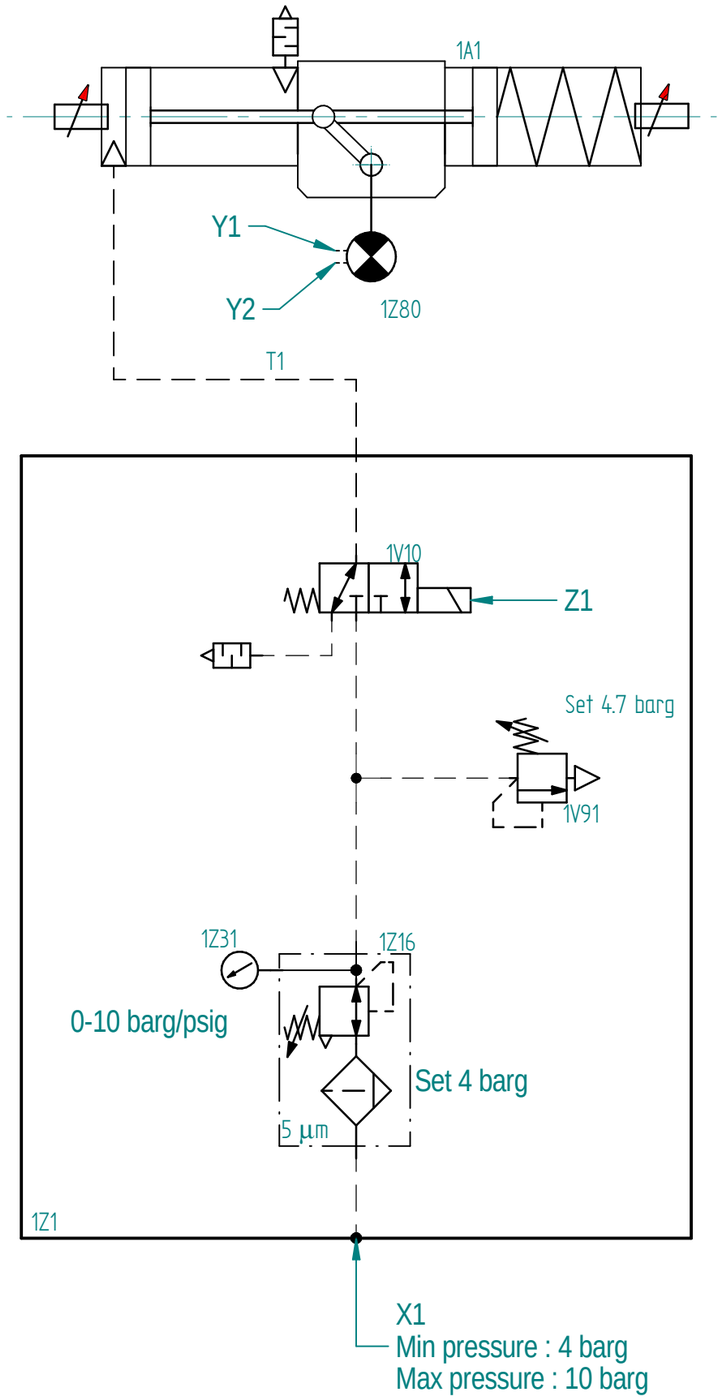
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Title WIRING DIAGRAM
Drawing Number AF7888WD01 Rev 1-0
Size A4 Sheet 1 of 1

PNEUMATIC



Rev	ECN	Revised	Rev. Approved	Date	Change Description
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Template Issue : 24/02/2020-SR

BILL OF MATERIAL					
Pos	**Description**	**Size**	**Manufacturer**	**Model**	**Material**
1A1	QUARTER TURN PNEUMATIC ACTUATOR, SPRING RETURN, SPRING TO OPEN		ROTORK	*see Tag Number Table	*see Tag Number Table
1V10	SOLENOID VALVE, DIRECT ACTING, 3/2 UNIVERSAL TYPE, SPRING RETURN	1/4"	BIFOLD	FP06P-S1-04-32-NU-V-77A-24D-57	AISI316L
1V91	PRESSURE RELIEF VALVE, FREE EXHAUST	1/2"	N.G.I.	D10/S	AISI 316
1Z1	CONTROL PANEL		RFS	-	AISI316L
1Z16	FILTER REGULATOR, SELF RELIEVING, FILTER WITH MANUAL DRAIN	1/4"	BIFOLD	SH06-FR-SR-MD-10-X1	AISI 316L
1Z31	PRESSURE GAUGE, GAUGE TYPE	DN 63	WIKA	233.50	AISI316
1Z80	LIMIT SWITCH BOX, 2 ELECTRIC CONNECTION	-	SOLDO	SQN120E-20X23L7	AISI 316

RFS Item	Tag No.	ACTUATOR MODEL	ACTUATOR MATERIAL
1	50-XV-005	CP/S-035-100A/BA	CAST IRON

N°	Description	Type	Size	Manufacturer	Material
T1	PNEUMATIC TUBING	POWER LINE	1/2"	SANDVIK or EQUIVALENT	AISI 316L
-	TUBE FITTINGS	DOUBLE FERRULE	ACCORDING TO TUBING SIZE	FITOK	AISI 316
-	SILENCER - BUG SCREEN	SFEX	ACCORDING TO PORT SIZE	-	AISI316
-	THREADED UNIONS		ACCORDING TO COMPONENT SIZE	R.F.S.	AISI316

Connection	Description	Size
X1	PNEUMATIC CONNECTION TO CONTROL PANEL (INLET)	1/2" NPT (Female)
Y1 - Y2	LIMIT SWITCH BOX MICRO ELECTRIC CONNECTION	M20x1.5 (Female)
Z1	SOLENOID VALVE ELECTRIC CONNECTION	M20x1.5 (Female)

FUNCTION	DESCRIPTION
1) REMOTE OPERATION:	1A) VALVE ACTUATOR OPEN STROKE: ENERGIZE SOLENOID VALVE 1V10.
	1B) VALVE ACTUATOR CLOSE STROKE: DE-ENERGIZE SOLENOID VALVE 1V10.

NOTES
THE SCHEMATIC IS SHOWN WITHOUT PNEUMATIC AND ELECTRIC SUPPLY
THE ACTUATOR IS SHOWN IN CLOSE POSITION

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