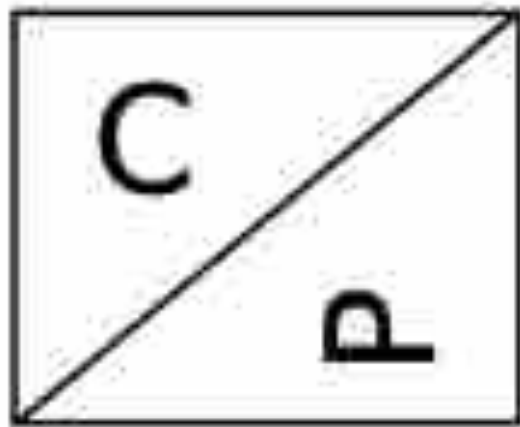


# Pressure transducer

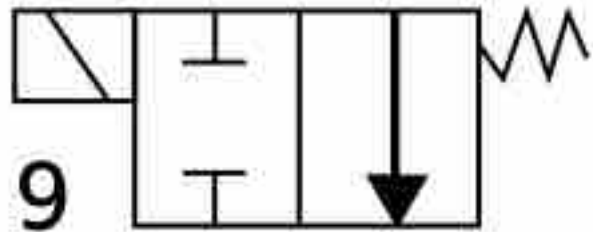
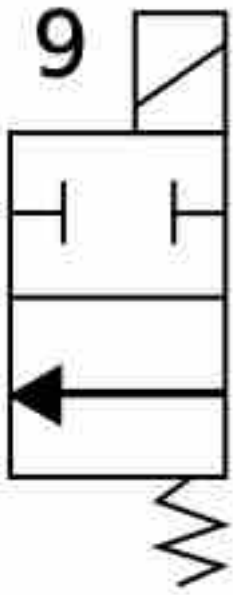


4. Pressure transducer



TDH40

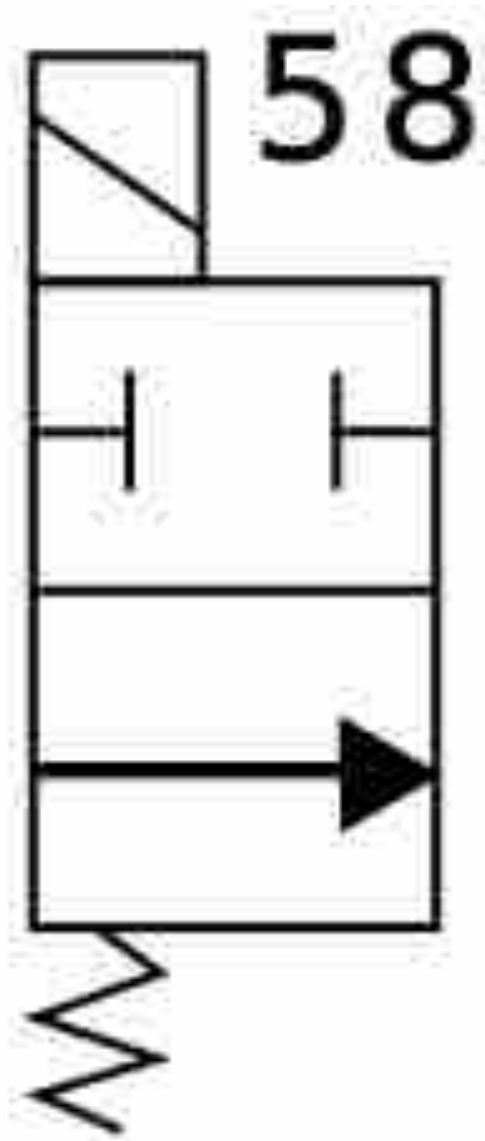
# Solenoid valve



9. ASCO 8262H019 12V DC

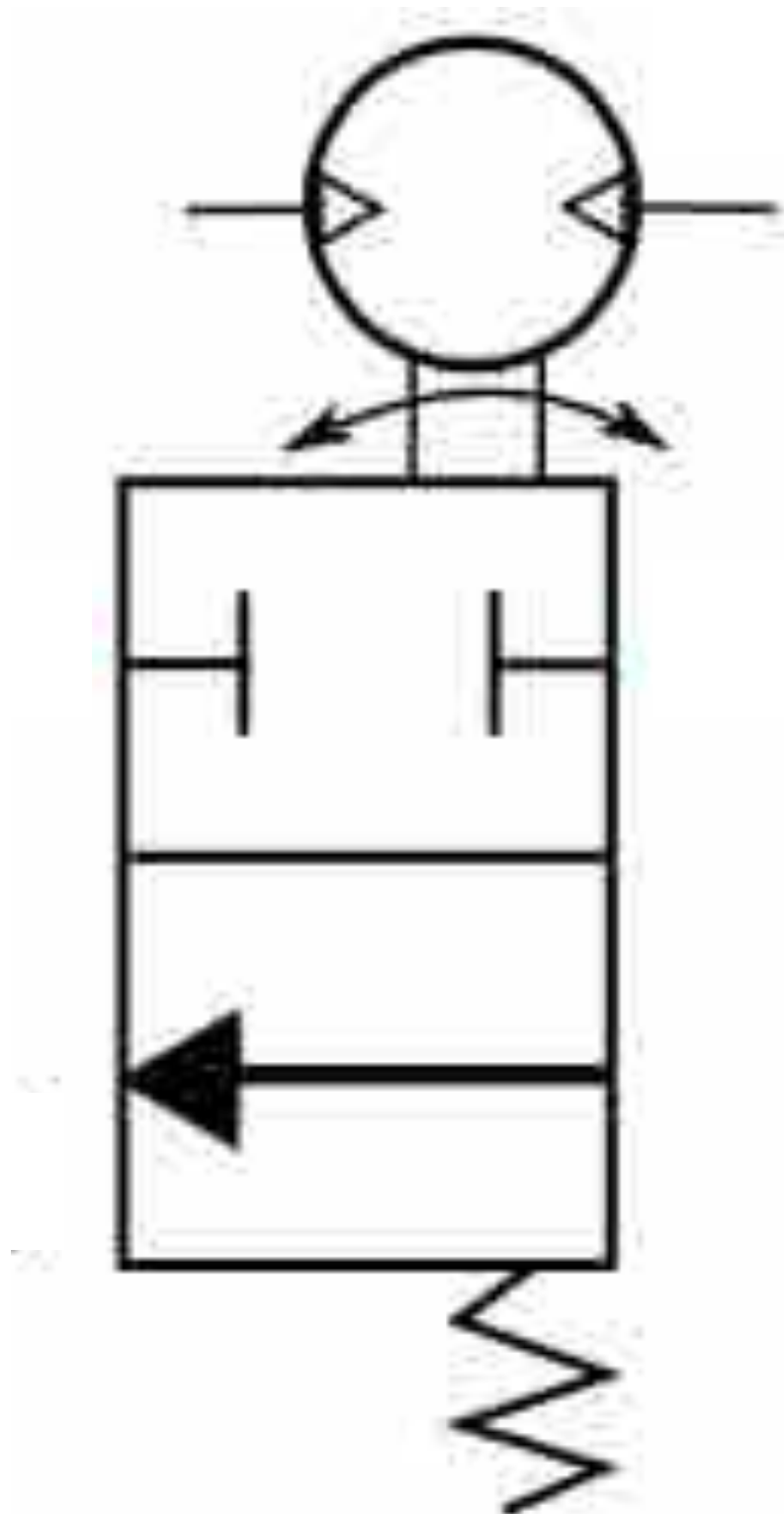
# Solenoid valve

## High pressure vent valve



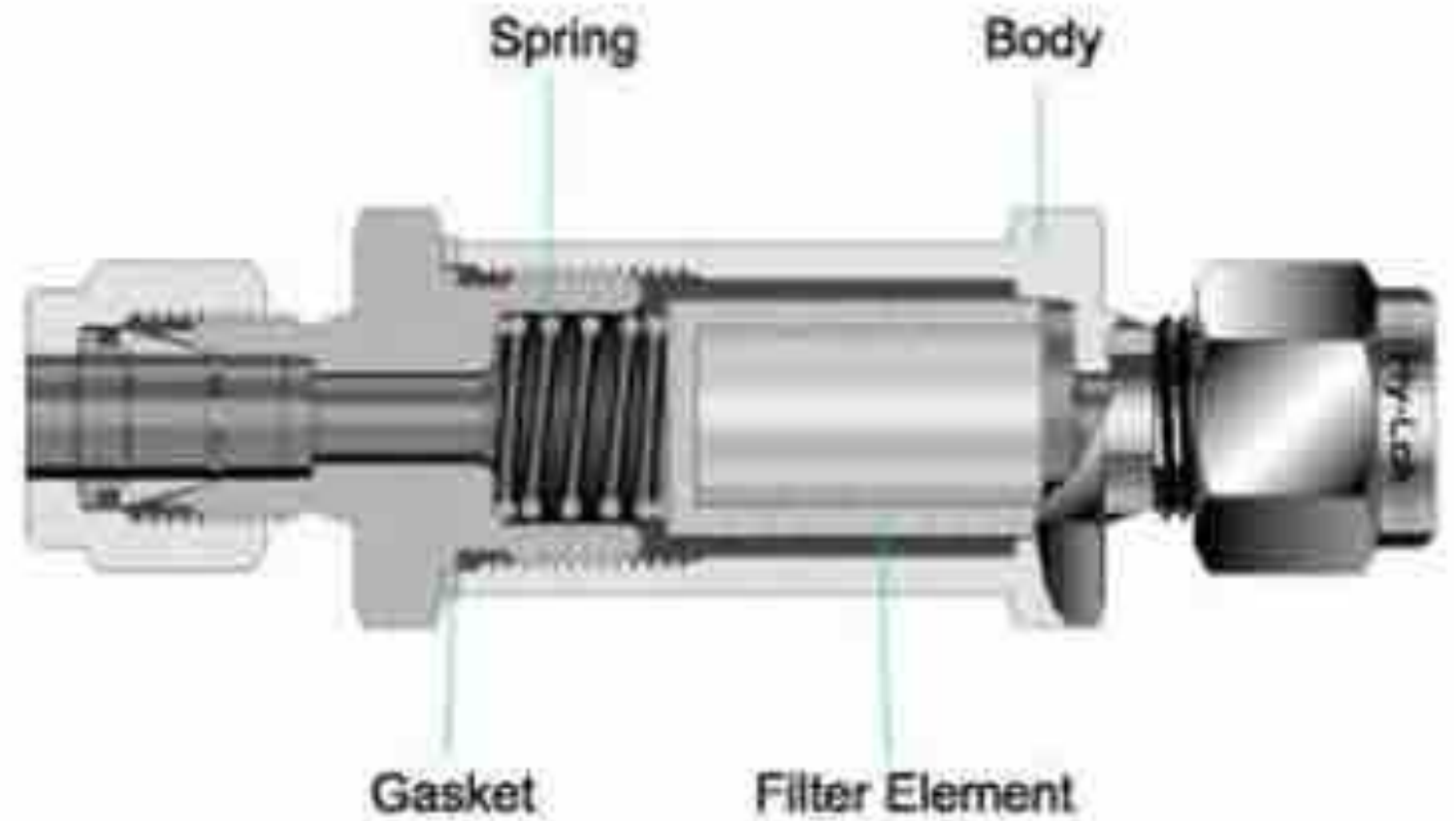
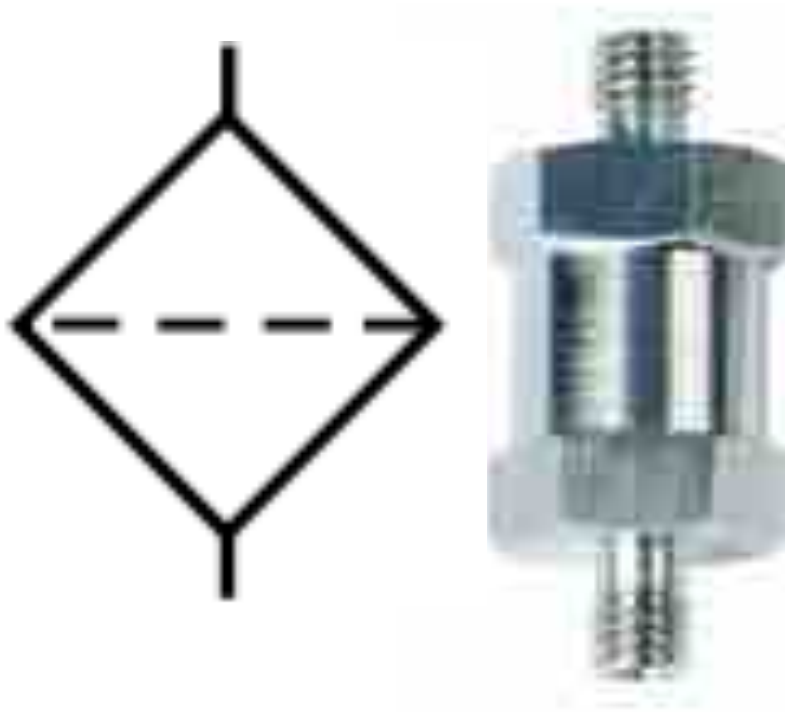
58. Fuel Vent Valve (solenoid)  
Clark cooper solenoid valve

# Custom solenoid valve



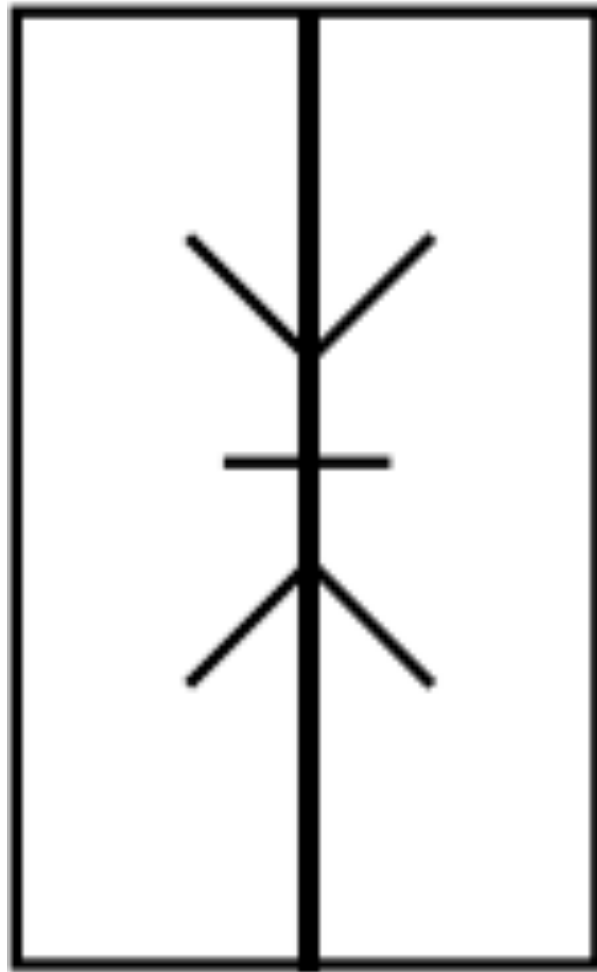
68. Main Fuel Valve -  
Electrically actuated  
Ball valve assembly  
(In house product)

# Micron inline filter



45. Micron inline filter

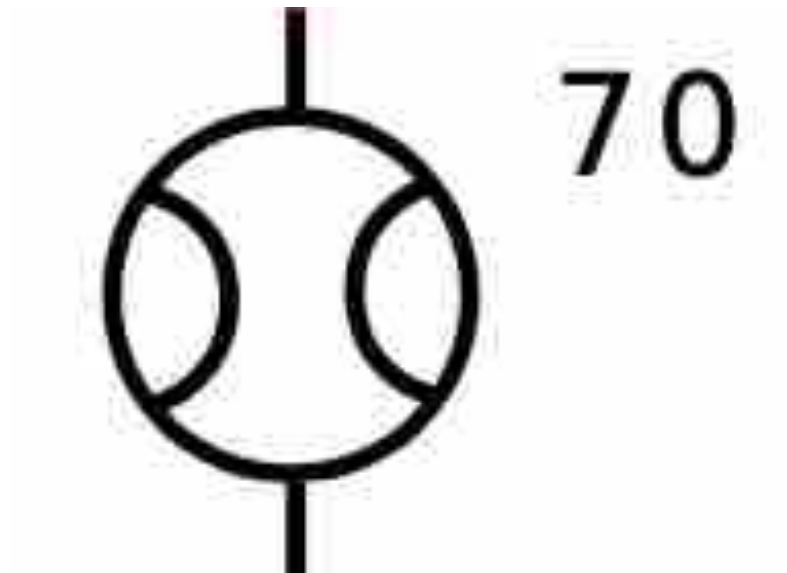
# Quick disconnect



46. Swagelock  
Quick disconnect  
(SSQF4B4PM  
, SSQF4S4PM)

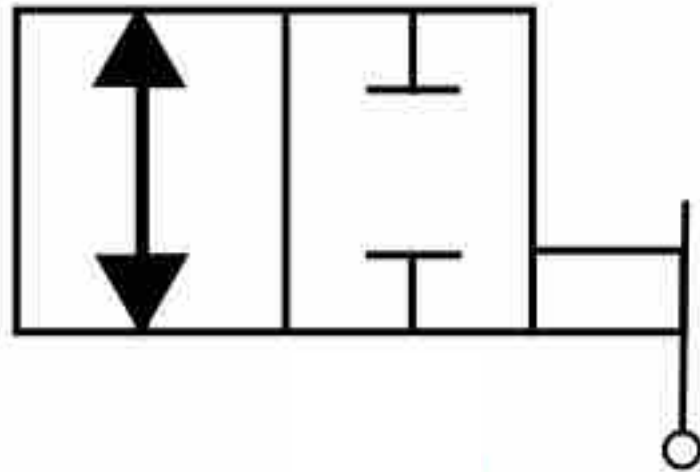


# Flow meter



70. Flowmeter

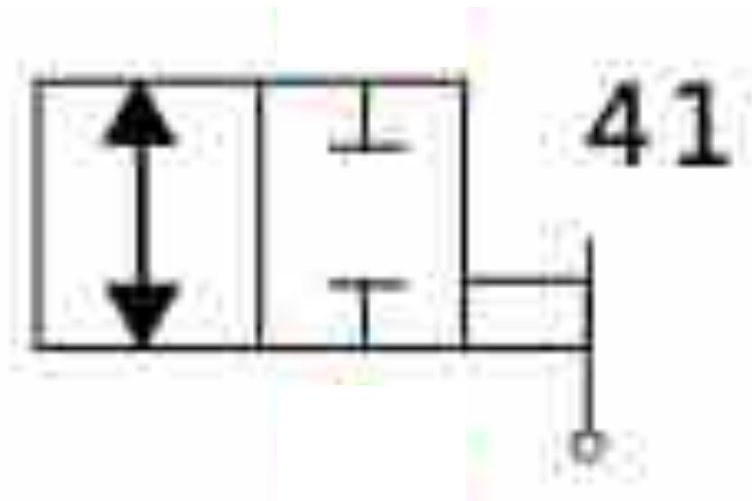
# Ball valve



5. Ball Valve  
1/2 NPT Female



# Ball valve (LOX compatible)

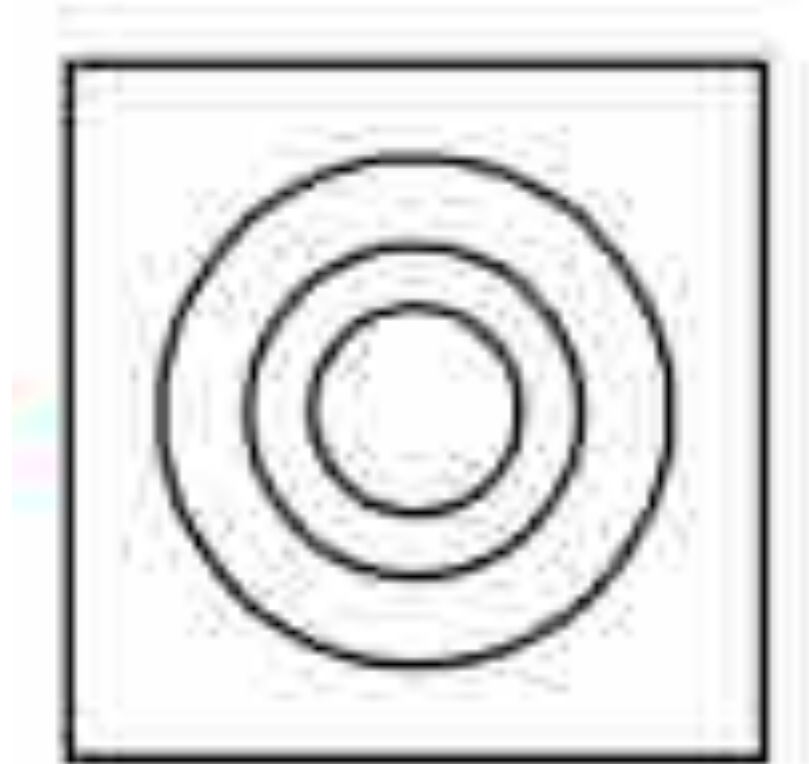


41. HABONIM

Three piece ball valve

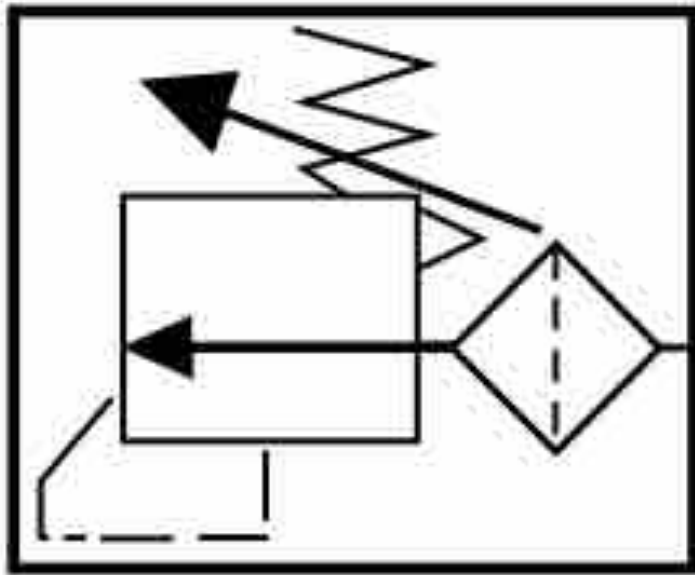
05C47C- 6666AT/NPT-LD

# Custom ball valve

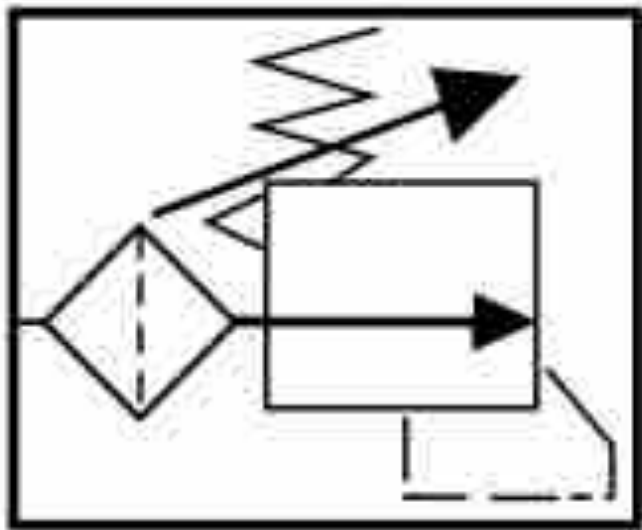


68. Main Fuel Valve  
- Electrically actuated  
Ball valve assembly  
(In house product)

# Pressure regulator



7. Pressure Regulator (LOX side)

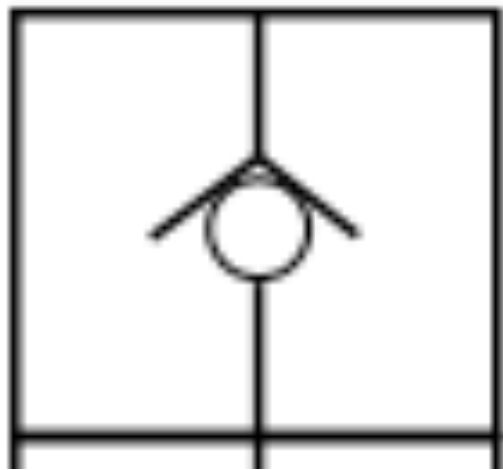


11. Pressure Regulator (Fuel side)



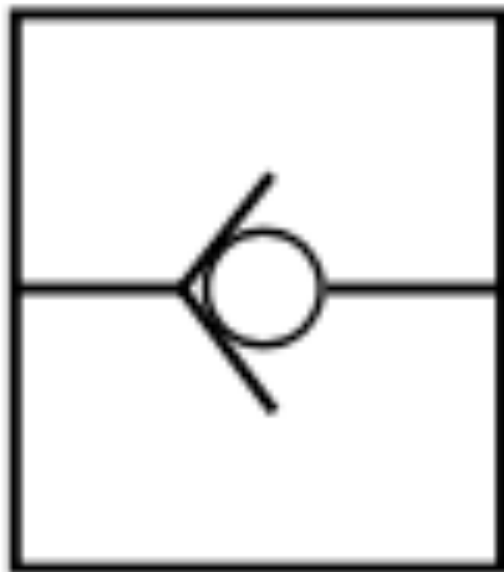
Pressure regulator

# Check valve



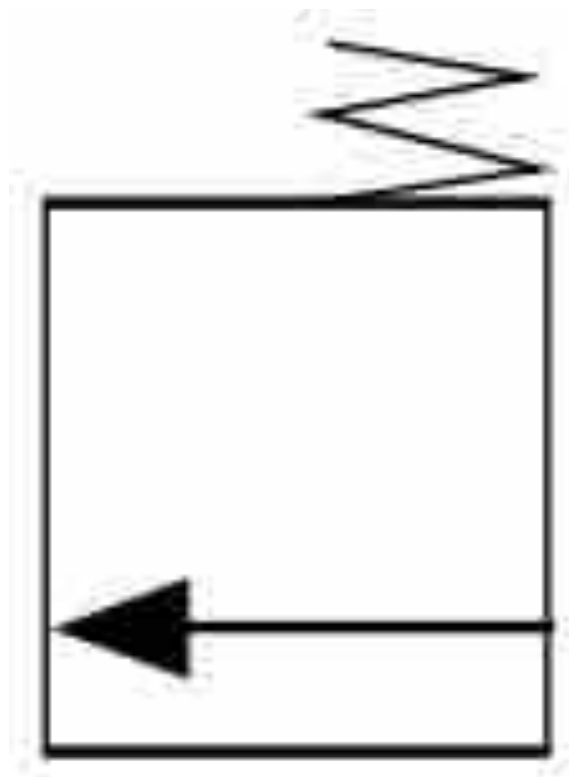
10. Poppet Check Valve,  
Fixed Pressure,  
1/4 in. FNPT,  
1 psig (0.07 bar)

# Check valve (high pressure back-flow prevention)



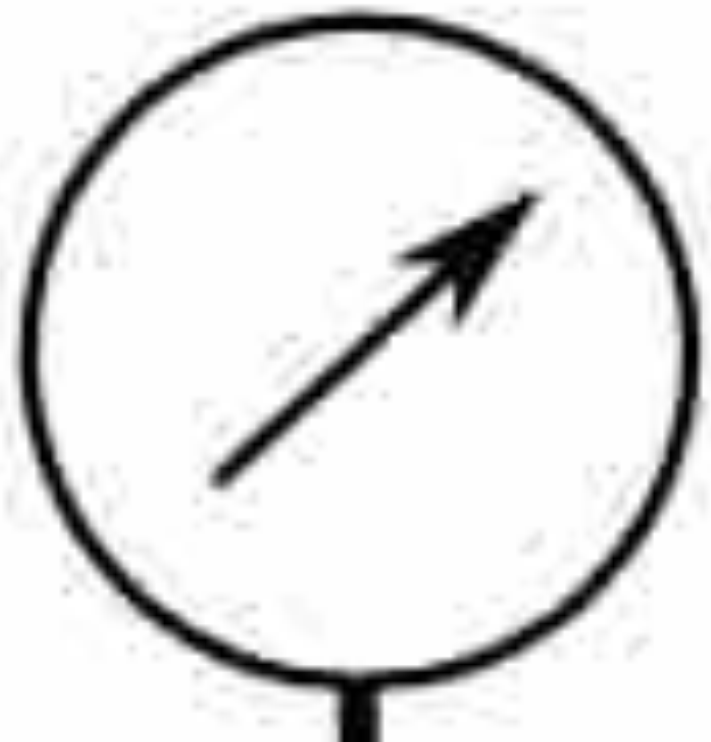
40. Compact High-Pressure  
Backflow-Prevention Valve  
for Water, Brass Body,  
1/4 NPTF  
Male

# Relief valve



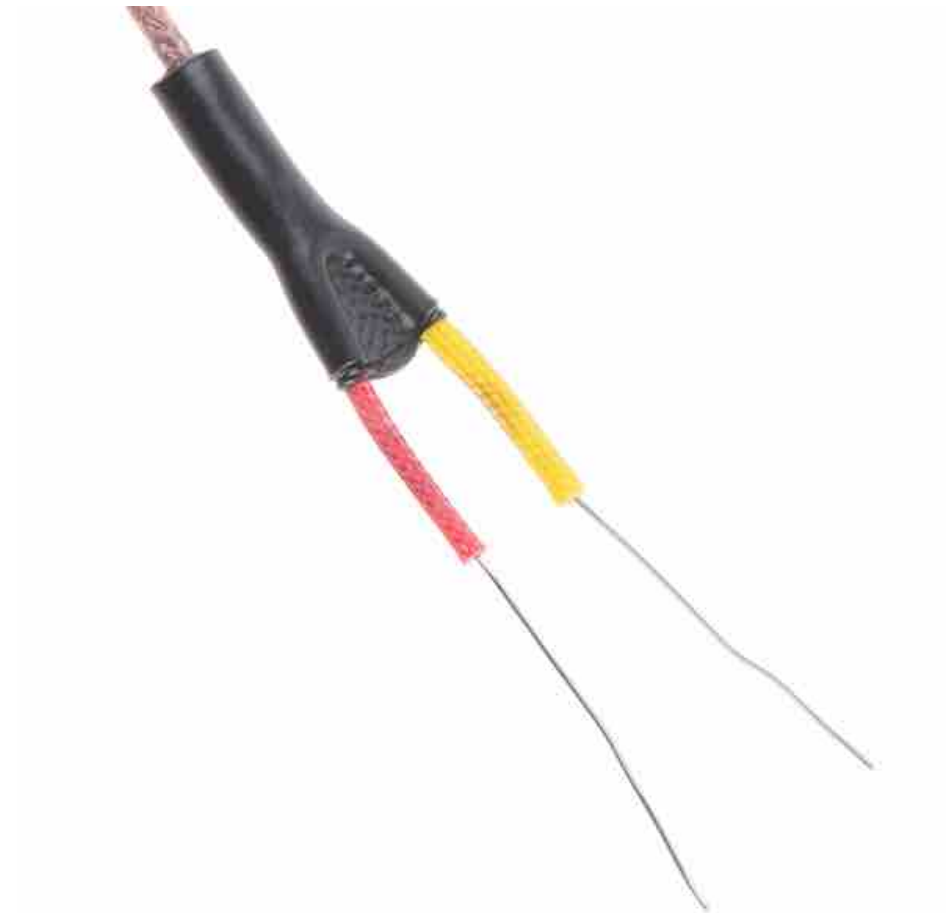
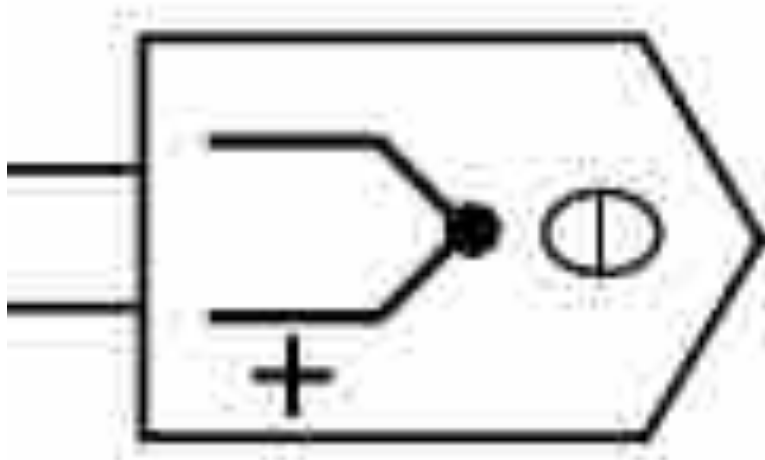
15. High Pressure Relief Valve - 1/2 inch

# Pressure gauge



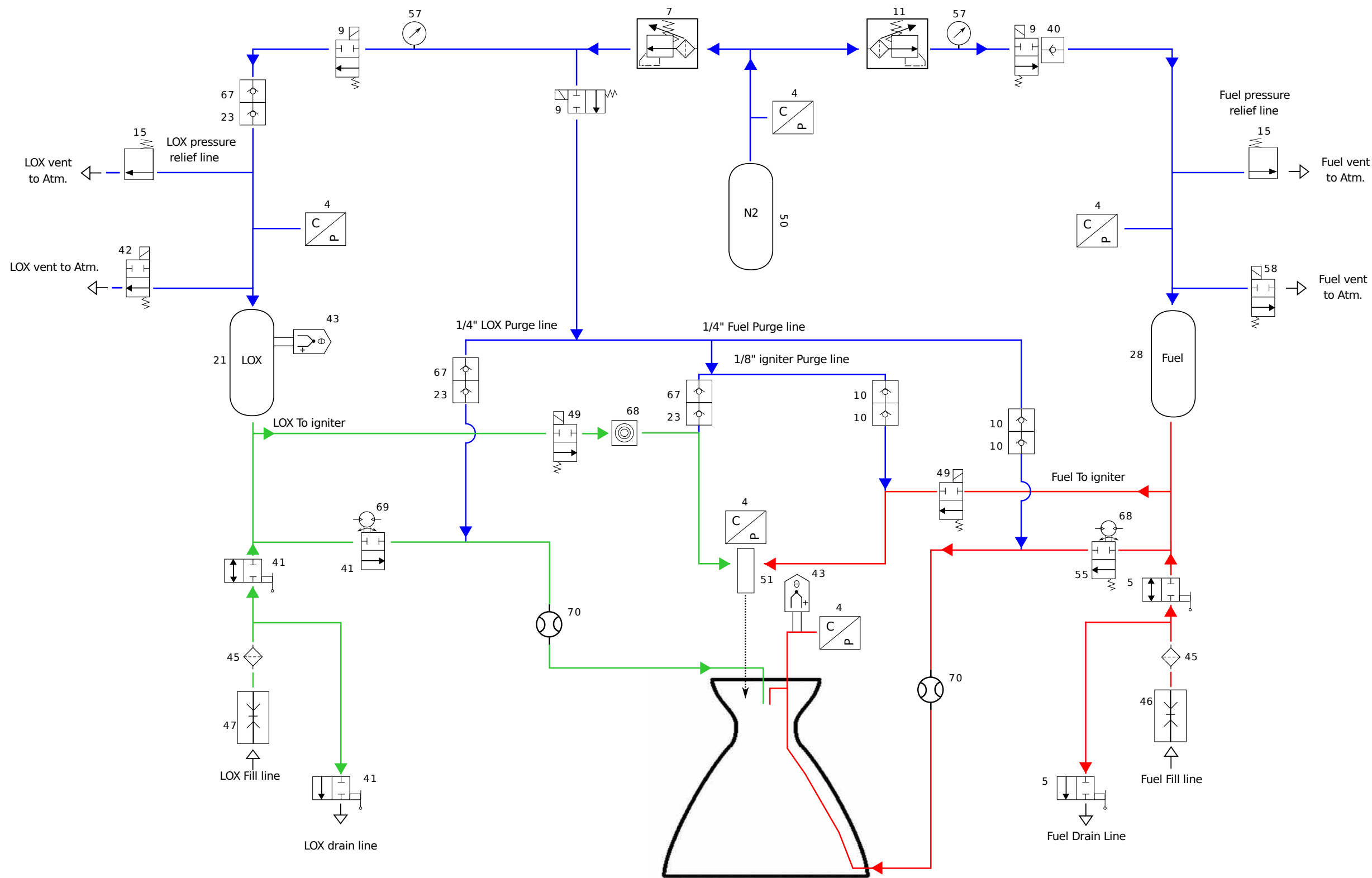
57. Winters  
600 PSI Pressure Gauge


# Thermocouple Type-K



43. Sparkfun SEN-00251  
Temp sense for LOX tank





	PID Ref #	Part #	Qty	Manufacturer / Distributor	Description
Pressure Panel	4	TDH40	2	Transducers Direc	Pressure Transducer
Test Stand	4	TDH40	3	Transducers Direc	Pressure Transducer
Test Stand	5	4024T730	2	McMaster-Carr	Ball Valve 1/2 NPT Female
Pressure Panel	7	KCY1JRA412A20000	1		Pressure Regulator (LOX side)
Pressure Panel	9	8262H019VDC12	3		ASCO 8262H019 12V DC
Test Stand	10	B-4C4-1	2	Swagelok	Poppet Check Valve, Fixed Pressure, 1/4 in. FNPT, 1 psig (0.07 bar)
Pressure Panel	11		1		Pressure Regulator (Fuel Side)
Test Stand	15	HPRV-500-(pressure)	2		High Pressure Relief Valve - 1/2 inch
Test Stand	21	8HD4G	1		LOX Tank
Test Stand	28	C020	1		Ethanol Tank
Test Stand	40	46105K690	1	McMaster-Carr	Compact High-Pressure Backflow-Prevention Valve for Water, Brass Body, 1/4 NPTF Male
Test Stand	41	05C47C-6666AT/NPT-LD	3		LOX compatible Ball Valve
Test Stand	42	E29LR62	1	Magnatrol	12 V DCSOLENOID VALVE
Test Stand	43	SEN-00251	2	Sparkfun	Temp sense for LOX tank
Test Stand	45	98355K863	2	McMaster-Carr	Micron Inline Filter
Pressure Panel	46	SSQF4B4PM	2	Swagelok	Quick disconnect
Pressure Panel	47	SSQF4S4PM	2	Swagelok	Quick disconnect
Igniter	49	D2011-SB5-T-TO-LC-C203	5	Gems	<a href="https://drive.google.com/open?id=0BzZpualyKAXnLS1nNEk2MTB1TzA">https://drive.google.com/open?id=0BzZpualyKAXnLS1nNEk2MTB1TzA</a>
Test Stand	50	Nitrogen K-Bottle	1		Nitrogen K-Bottle
Igniter	51	Custom Printed Sintered Stainless	1	Shapeways	Design in progress
Test Stand	55	Sharpe 39036	1		1/2 in ball valve, main fuel valve
Pressure Panel	57	PFP663ZRR1	2	Winters	Winters 600 PSI Pressure Gauge
Test Stand	58	Fuel Vent Valve (solenoid)	1	Clark Cooper	Fuel Vent Valve (solenoid)
Test Stand	67	LOX compatible check valve	6		
Test Stand	68	Main Fuel Valve	1	In house project	Main Fuel Valve - Electrically actuated Ball valve assembly
Test Stand	69	Main LOX valve	1	In house project	Main LOX Valve - Electrically actuated Ball valve assembly
Test Stand	70	Flow meter	1		Flow meter