

MVP Multi-Valve Platform

MULTIPLE SOLUTIONS TO FIT YOUR APPLICATION



MVP
SELECTION GUIDE

MULTIPLE SOLUTIONS TO FIT YOUR APPLICATION

The modular components of the MVP Multi-Valve Platform allow complete valve customization to accommodate a wide range of capacities and application requirements. Select the valve station components that support your unique refrigeration needs.

FUNCTIONALITY

Compact valve station offering up to six control functions, including: solenoid valve, two-step solenoid valve, all common pressure regulator functions (inlet, outlet, dual pressure) and sealed motor valve.

INTERCHANGEABILITY

The MVP is a universal valve solution offering fully interchangeable parts and parts kits with all existing Hansen Solenoid, Regulator and Shut-off Valves.

FEATURES

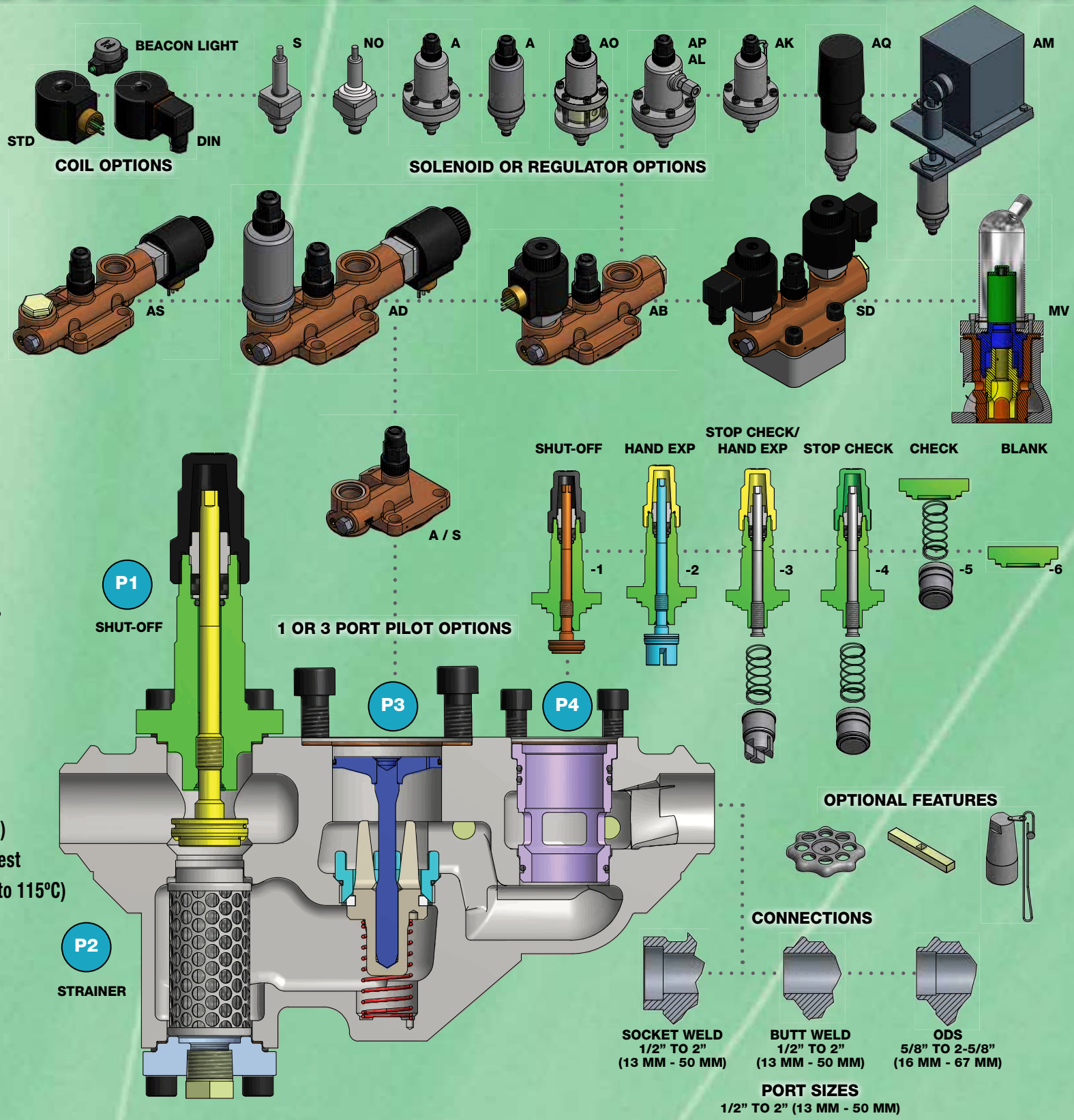
Standard MVP features include manual opening stems and a full size stainless steel mesh strainer.

SPECIFICATIONS

Safe Working Pressure: 600 psig (41 bar)
800 psig (55 bar) available upon request
Temperature Range: -60° to 240°F (-50° to 115°C)

TIME AND COST SAVINGS

The compact, lightweight MVP valve ships pre-tested and assembled for quick, easy two weld installation — saving you time and money on shipping and installation costs.



LINE	CONTROL VALVE PRESSURE DROP*	EVAPORATOR VALVE SIZING									
		10	20	30	40	50	60	70	80	90	
AMMONIA (TONS)											
HOT GAS	2 PSI (.14 BAR)	MVP13-2	MVP20-2	MVP25-2	MVP32-2	MVP40-2SD (Two-Step)			MVP50-2SD (Two-Step)		
DEFROST RELIEF	70 PSIG (6 BAR) SET POINT	MVP20-1AK 50%	MVP20-1AK	MVP25-1AK	MVP32-1AK	MVP40-1AK					
LIQUID 4:1 OVERFEED	2 PSI (.14 BAR)	MVP13-3		MVP20-3		MVP25-3			MVP32-3		
SUCTION LINE +40°F (+5°C)	2 PSI (.14 BAR)	MVP20-1AS	MVP25-1AS	MVP32-1AS	MVP40-1AS			MVP50-1AS	2½" HA4AS		
	5 PSI (.35 BAR)	MVP20-1AS 50%	MVP20-1AS	MVP25-1AS	MVP32-1AS	MVP40-1AS					
	10 PSI (.69 BAR)	MVP20-1AS 25% 50%	MVP20-1AS	MVP25-1AS		MVP32-1AS	MVP40-1AS				
SUCTION LINE +20°F (-7°C)	2 PSI (.14 BAR)	MVP20-1AS	MVP25-1AS	MVP32-1AS	MVP40-1AS	MVP50-1AS	2½" HA4AS				
	5 PSI (.35 BAR)	MVP20-1AS	MVP25-1AS	MVP32-1AS	MVP40-1AS			MVP50-1AS			
	10 PSI (.69 BAR)	MVP20-1AS 25% 50%	MVP20-1AS	MVP25-1AS		MVP32-1AS	MVP40-1AS				
SUCTION LINE 0°F (-18°C)	2 PSI (.14 BAR)	MVP20-1AS	MVP__-1AS 25 32	MVP40-1AS		MVP50-1AS	2½" HA4AS		3" HA4AS		
	5 PSI (.35 BAR)	MVP20-1AS	MVP25-1AS	MVP32-1AS	MVP40-1AS			MVP50-1AS	2½" HA4AS		
SUCTION LINE -20°F (-29°C)	2 PSI (.14 BAR)	MVP25-1AS	MVP__-1AS 32 40	MVP50-1AS		2½" HA4AS		3" HA4AS		4" HA4AS	
AMMONIA (kW)		35	70	105	141	176	211	246	281	316	

*Dry suction line conditions, 2 psi (.14 Bar) pressure drop across control valve in Position 3. Allow 2 to 3 times the control valve pressure drop for the entire valve. Hot Gas Defrost valve based on 86°F (30°C) condensing temperature. These capacities can be modified up or down depending on type of evaporator, temperature, mass, frost thickness, and defrosting time. For liquid overfeed conditions add 20% to the dry suction capacity to select valve size. Capacities are within 10% between -40°F (-40°C) and +40°F (5°C). Contact the factory for other conditions and refrigerants.

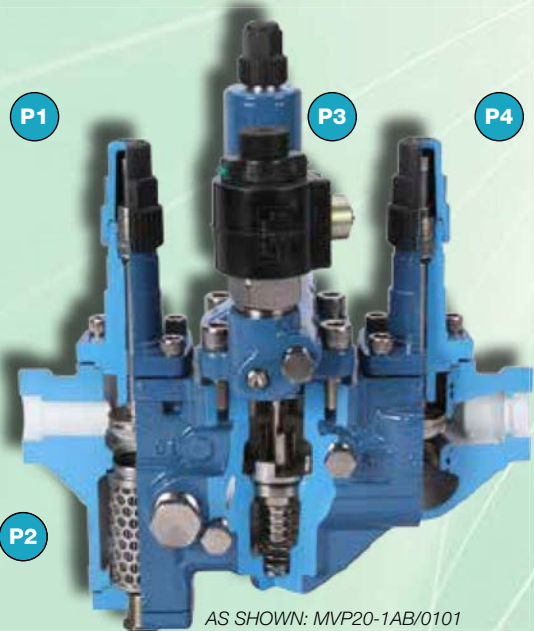
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SAMPLE CONFIGURATIONS FOR COMMON VALVE APPLICATIONS

APPLICATION	P1 POSITION 1	P2 POSITION 2	P3 POSITION 3*	P4 POSITION 4	TYPICAL MVP MODELS (SEE CODING TABLE BELOW)
LIQUID FEED	SHUT-OFF	STRAINER	SOLENOID	STOP CHECK/HEV	MVP__-3/____
LIQUID MAKE-UP	SHUT-OFF	STRAINER	SOLENOID	HAND EXPANSION	MVP__-2/____
LIQUID MAKE-UP, MOTORIZED	SHUT-OFF	STRAINER	MOTOR	SHUT-OFF	MVP__-1MR/____
HOT GAS VALVE	SHUT-OFF	STRAINER	SOLENOID	SHUT-OFF	MVP__-1/____
HOT GAS VALVE, TWO-STEP	SHUT-OFF	STRAINER	TWO-STEP SOLENOID	SHUT-OFF	MVP__-1SD/____
DEFROST RELIEF	SHUT-OFF	STRAINER	REGULATOR	SHUT-OFF	MVP__-1AK/____
DEFROST, LOW SIDE TO HIGH SIDE	SHUT-OFF	STRAINER	REGULATOR	STOP CHECK	MVP__-4AK/____
SUCTION, DUAL PRESSURE	SHUT-OFF	STRAINER	REGULATOR	SHUT-OFF	MVP__-1AD/____
SUCTION, STOP FEATURE	SHUT-OFF	STRAINER	REGULATOR	SHUT-OFF	MVP__-1AS/____

Example: MVP 20-1AB/0101

A
 B C D E
 P4 CONFIGURATION P3 CONFIGURATION*



MVP CODING TABLE					
A MODEL CODE	P4 CONFIGURATION	B PORT SIZE	C CONTROL MODULE RANGE	D CONNECTION SIZE	E CONNECTION STYLE
13 (1/2")	1 - Shut Off	1 (1/2")	0 (Solenoid)	1 (1/2")	1 (SW)
20 (3/4")	2 - HEV	0 (3/4")	1 (Range A)	0 (3/4")	2 (BW)
25 (1")	3 - Stop Check/HEV	2 (1")	3 (Range B)	2 (1")	3 (ODS)
32 (1 1/4")	4 - Stop Check	3 (1 1/4")		3 (1 1/4")	
40 (1 1/2")	5 - Check	4 (1 1/2")		4 (1 1/2")	
50 (2")	6 - Blank	5 (2")		5 (2")	
				6 (2 1/2")	

*P3 Configuration - See Solenoid and Regulator options
MVP13 is only available as standard solenoid valve.



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