



HAM-LET ECONOMIC VALVES



- ✓ Up to Cv of 0.7
- ✓ Up to 300 psi
- ✓ Air operated and Manual valves

EV - REPLACEABLE SEAT MODEL

EVZ - GENERAL PURPOSE



EV SERIES

REPLACEABLE SEAT MODEL

METAL DIAPHRAGM VALVES

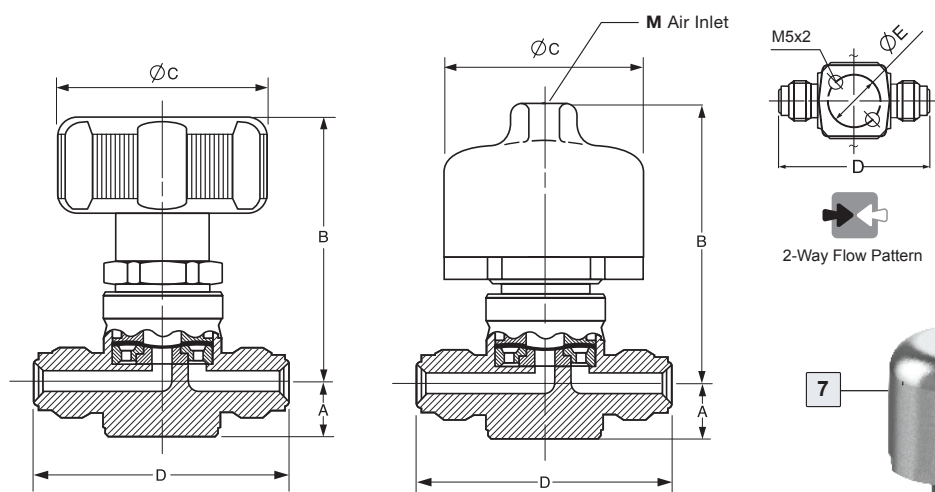
The EV Series is a family of standard models from the Ultra-Clean Valve Series, which are made according to HP specifications. These models come with end connections in three sizes, 1/4", 3/8" and 1/2", as a standard. These valves implement the traditional UCV 2LD series design concept of high reliability.

- Surface roughness of the wetted area held to $R_y \leq 2.5$ micro-meter as standard
- Standard with a 240-degree rotary handle with an open/close indicator
- Operable over a wide range of flow rates up to 1 MPa/150 psi
- Electropolished surfaces as an option ("-EP")
- Forged body



STANDARD CONFIGURATION DIMENSIONS

Part Number/ep	Size	End Connection	A	B	C	D	E	G
	inch		mm	mm	mm	mm	mm	inch
EV4-I	1/4	LET-LOK	11	63	45	63.5	25	-
EV4C-FV	1/4	Swivel Female HTC	11	65	46	70.6	25	1/8
EV4-BV	1/4	Male HTC	11	63	45	58	25	-
EV6-I	3/8	LET-LOK	17.5	67.5	45	79.4	28	-
EV8-I	1/2	LET-LOK	17.5	67.5	45	86	28	-
EV8C-FV	1/2	Swivel Female HTC	17.5	73.5	56	100	28	1/8
EV8-BV	1/2	Male HTC	17.5	67.5	45	76	28	-

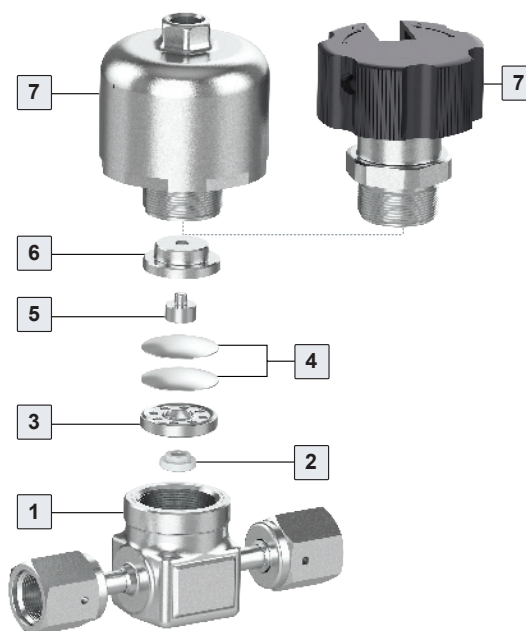


SPECIFICATIONS

Size	Design Pressure	Burst Pressure	Proof Pressure	Temp.	Cv	Leak Rates	
						Inboard	Across Seat
1/4"	1MPa	31MPa	1.5MPa	-10 to 60°C (PCTFE)	0.3	3 X 10 ⁻¹² Pa m3/sec Helium	3 X 10 ⁻¹⁰ Pa m3/sec Helium
3/8"	(150 psi)	(4500 psi)	(225 psi)	-10 to 150°C (PI)	0.7		
1/2"					0.7		

MATERIALS OF CONSTRUCTION

Item No.	Parts	Material
1	Body	316L SST
2	Seat	PCTFE/PI (polyimide)
3	Seat holder	316L SST
4	Diaphragm	Co-Cr-Ni alloy
5	Act. button	304 SST
6	Act. button holder	SST, ASTM 630 H900
7	Actuation device	Aluminum



EVZ SERIES

GENERAL PURPOSE

METAL DIAPHRAGM VALVES

Economic implementations of Ultra-Clean Valves

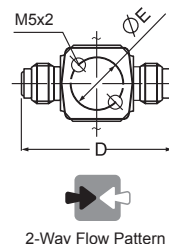
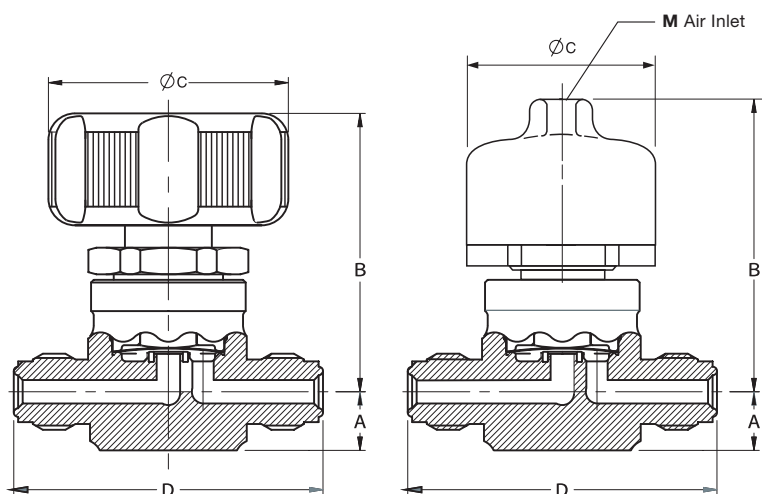
- Available in sizes from 1/4" to 1/2" to support a wide range of connections
- Standard with a 240-degree rotary handle with an open/close indicator
- Electropolish finish standard (LET-LOK unpolished)
- Aluminum handle for compact, lightweight geometry
- Forged body



The open/close indicator works on a follow-up basis. When opening or closing the valve, operate the handle until the handle hits the stopper.

PART NUMBER / DIMENSIONS

Part Number/ep	Size	End Connection	A	B	C	D	E
	inch		mm	mm	mm	mm	mm
EVZS4R-BV	1/4	Male HTC	11	53	45	58	25
EVZS4R-FV	1/4	Swivel female HTC	11	53	45	70.6	25
EVZS4R-BI	1/4	LET-LOK	11	53	45	63.5	25
EVZS6R-BI	3/8	LET-LOK	17.5	58	45	79.5	28
EVZS8R-BV	1/2	Male HTC	17.5	58	45	76	28
EVZS8R-FV	1/2	Swivel female HTC	17.5	58	45	100	28
EVZS8R-BI	1/2	LET-LOK	17.5	58	45	86	28

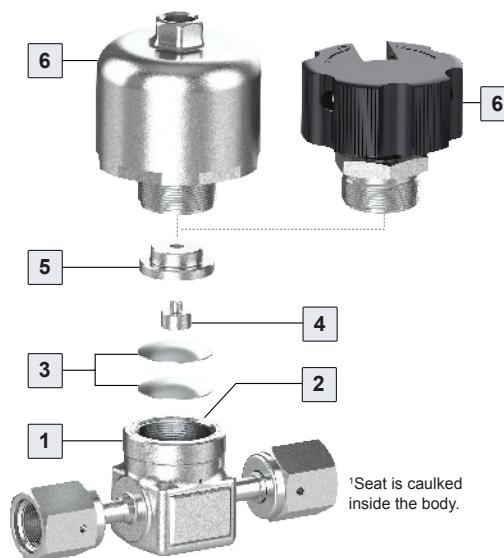


SPECIFICATIONS

Size	Design Pressure	Burst Pressure	Proof Pressure	Temp.	Cv	Leak Rates	
						Inboard	Across Seat
1/4"	1MPa (150 psi)	31MPa (4500 psi)	1.5MPa (225 psi)	-10 to 80°C	0.27	3X10 ⁻¹² pa·m³/sec Helium	3X10 ⁻¹⁰ pa·m³/sec Helium
3/8"					0.65		
1/2"							

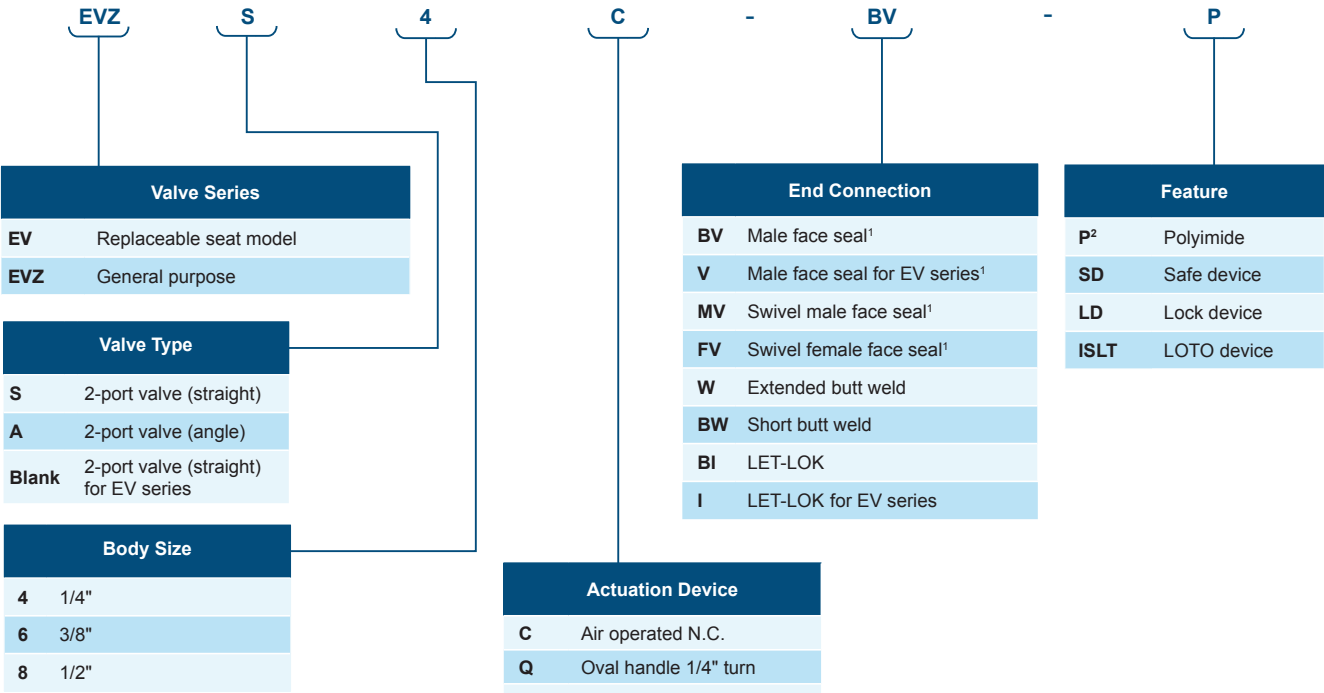
MATERIALS OF CONSTRUCTION

Item No.	Parts	Material
1	Body	316L SST
2	Seat (pressed)	PCTFE
3	Diaphragm	Co-Cr-Ni alloy
4	Act. button	304 SST
5	Act. button holder	SST, ASTM 630 H900
6	Actuation device	Aluminum



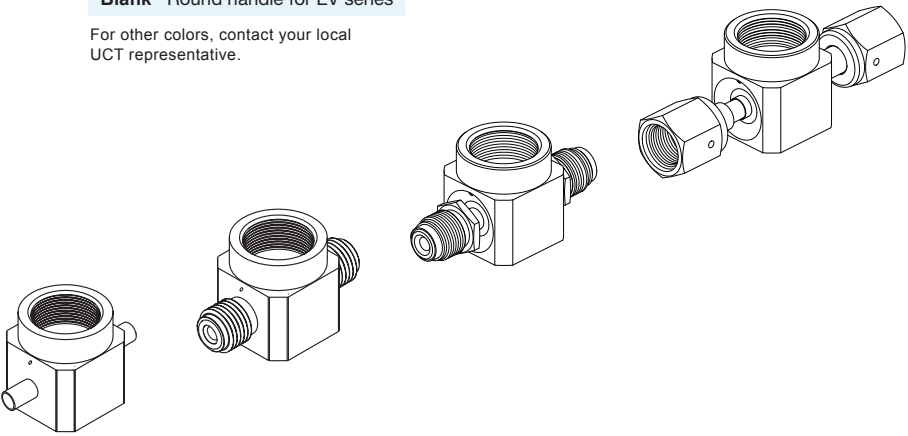
ORDERING INFORMATION - COST EFFICIENT

Valve Description Example:



¹For 1/2", 1/4" end connections only
²For EV series only

For other colors, contact your local UCT representative.



■ Standad seat: PCTFE

For your convenience, port conversion
of old HMJ valves to current HM series:
A = 30 | B = 35 | C = 34 | D = 31 | E = 32 | F = 33

Warning! For your safety

The system designer and user have the sole responsibility of selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.