



HAM-LET HIGH CYCLE LIFE SERIES



- ✓ High cycle life of 10 million
- ✓ Consistent Cv
- ✓ Hybrid and air operated configurations

HCS - HIGH LIFE CYCLE
HYPS - HYBRID PRO



HCS SERIES

HIGH CYCLE SURFACE MOUNT SERIES

The Ultra-Clean Valves Series offers a surface mount body design.

The surface mount design complies with SEMI F86 and F87 for 1.125" 2-port and 3-port C-Seal components.

Low-profile design with a minimum dead volume.

The HCS series dedicate for high reliability through its high cycle life.

UCV SPECIFICATIONS

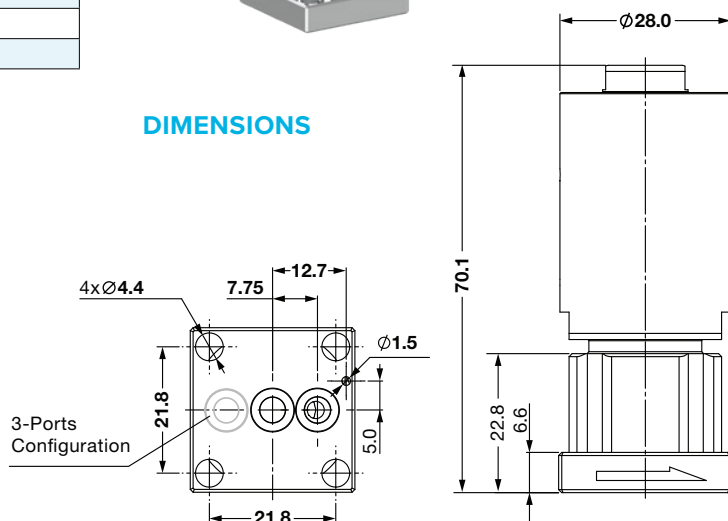
Structure	Direct-seal, metal-diaphragm valve without seal packing, manually and pneumatically operated
Design pressure	Vacuum to 150 psi (10.3 Bar)
Burst pressure	4500 psi (310.2 Bar)
Proof pressure	300 psi (20.7 Bar)
Operating temperature	-10 to 60°C
Leakage: Inboard leakage	$\leq 3 \times 10^{-11}$ atm cc He/sec
Across the seat	$\leq 1 \times 10^{-9}$ atm cc He/sec
Particle	No particles detected above 0.1µm.
Cv value	0.3
Surface finish Ra (Ave)-standard	5µin
Actuator air supply (pneumatic)	4 - 6 Bar
Air connection (pneumatic)	Thread M5

MATERIALS OF CONSTRUCTION

Item No.	Part No.	Material
1	Body	SS 316L VAR
2	Seat	PCTFE
3	Diaphragm	Co-Cr-Ni Alloy
4	Act. button	Stainless Steel
5	Act. button holder	Stainless Steel
6	Actuator Shell	Stainless Steel



DIMENSIONS



Warning!

The system designer and user have the sole responsibility for 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.

The dimensions apply to pneumatic valves.
Dimensions are for reference only and are subject to change.

ORDERING INFORMATION - HCS SERIES

HCS	20	-	4	V	K	LC	4M
Valve Series	Valve Type	Body Size		Seat Material		Actuation Device	Air Connection
20	Two port valve	4	1/4" (1.125" C-Seal)	K	PCTFE	LC	Air operated N.C.
30	Three port valve	Body Material		LO		Air operated N.O.	Blank
		V	SST 316L VAR				Thread M5
							4M
							For 4mm tube
							1/8
							For 1/8" tube

Note: For limit switch indicator, contact your local UCT representative

HYPS SERIES HYBRID PRO SERIES

An Ultra-Clean metal diaphragm hybrid-operated valve in a surface-mount body design. The Hybrid-Pro series is designed for outstanding reliability by its high cycle life and stable flow coefficient.

This series is equipped with a built-in manual safety mechanism

UCV SPECIFICATIONS

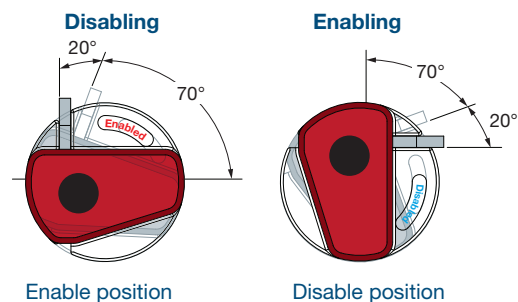
Structure	Direct-seal, metal-diaphragm valve without seal packing, manually and pneumatically operated
Design pressure	Vacuum to 150 psi (10.3 Bar)
Burst pressure	4500 psi (310.2 Bar)
Proof pressure	300 psi (20.7 Bar)
Operating temperature	-10 to 60°C
Leakage: Inboard leakage	$\leq 3 \times 10^{-11}$ atm cc He/sec
Across the seat	$\leq 1 \times 10^{-9}$ atm cc He/sec
Particle	No particles detected above 0.1µm.
Cv value	0.3
Surface finish Ra (Ave)-standard	5µin
Actuator air supply (pneumatic)	4 - 6 Bar
Air connection (pneumatic)	Thread M5

MATERIALS OF CONSTRUCTION

Item No.	Part No.	Material
1	Body	Stainless steel, 316L VAR
2	Seat	PCTFE
3	Diaphragm	Co-Cr-Ni Alloy
4	Act. Button	Stainless steel
5	Act. button holder	Stainless steel
6	Actuator Shell	Stainless Steel
7	Stem Assembly	Stainless Steel
8	Handle Assembly	Stainless Steel / Aluminum

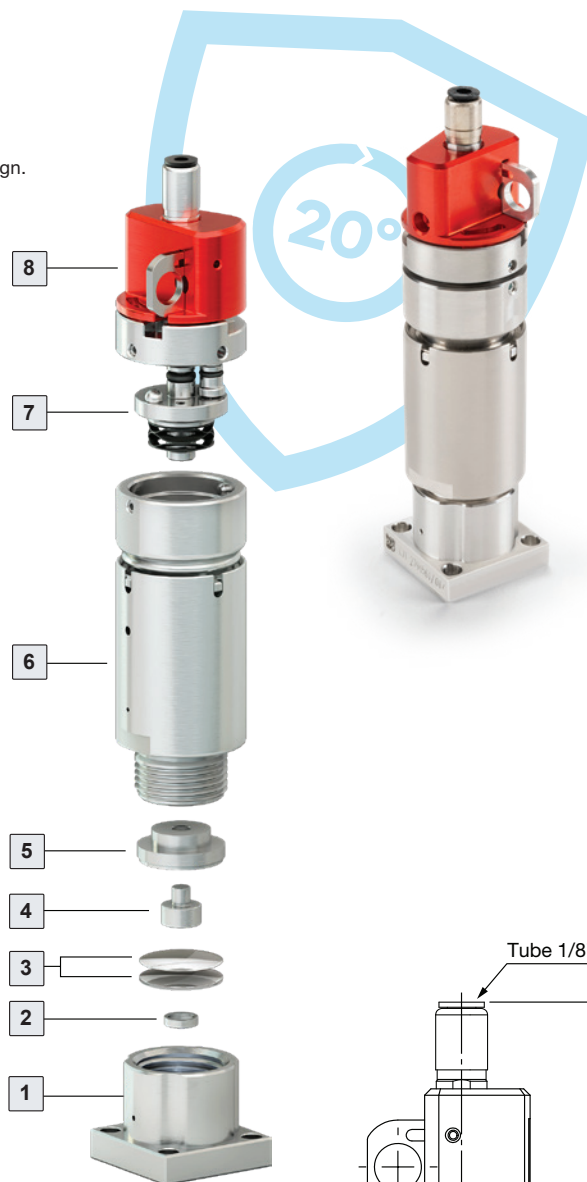
THE MANUAL-SAFETY MECHANISM

The valve remains unaffected within the handle's first 20° of rotation for opening or closing and eliminating unintentional handle turn by the operator

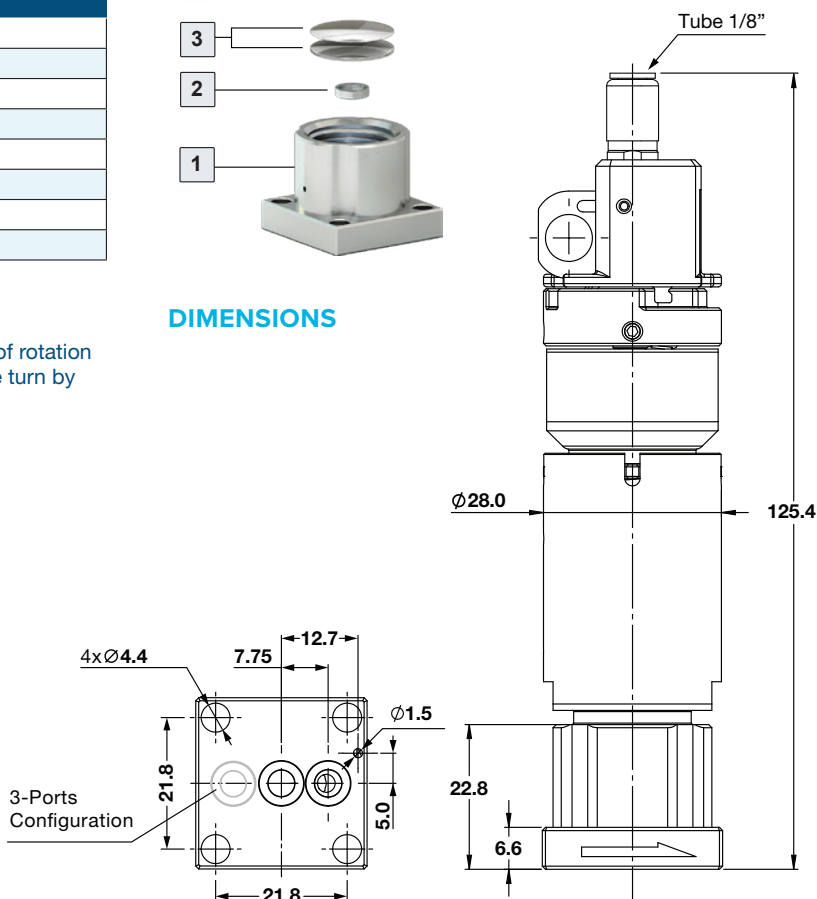


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DIMENSIONS



ORDERING INFORMATION - HYBRID PRO SURFACE MOUNT

HYP S	20	-	4	V	K	LC	
Valve Series	Valve Type	Body Size		Body Material	Seat Material	Actuation Device	
20	Two port valve	4	1/4" (1.125" C-Seal)	V	SST 316L VAR	K PCTFE	LC Hybrid N.C.
30	Three port valve						