

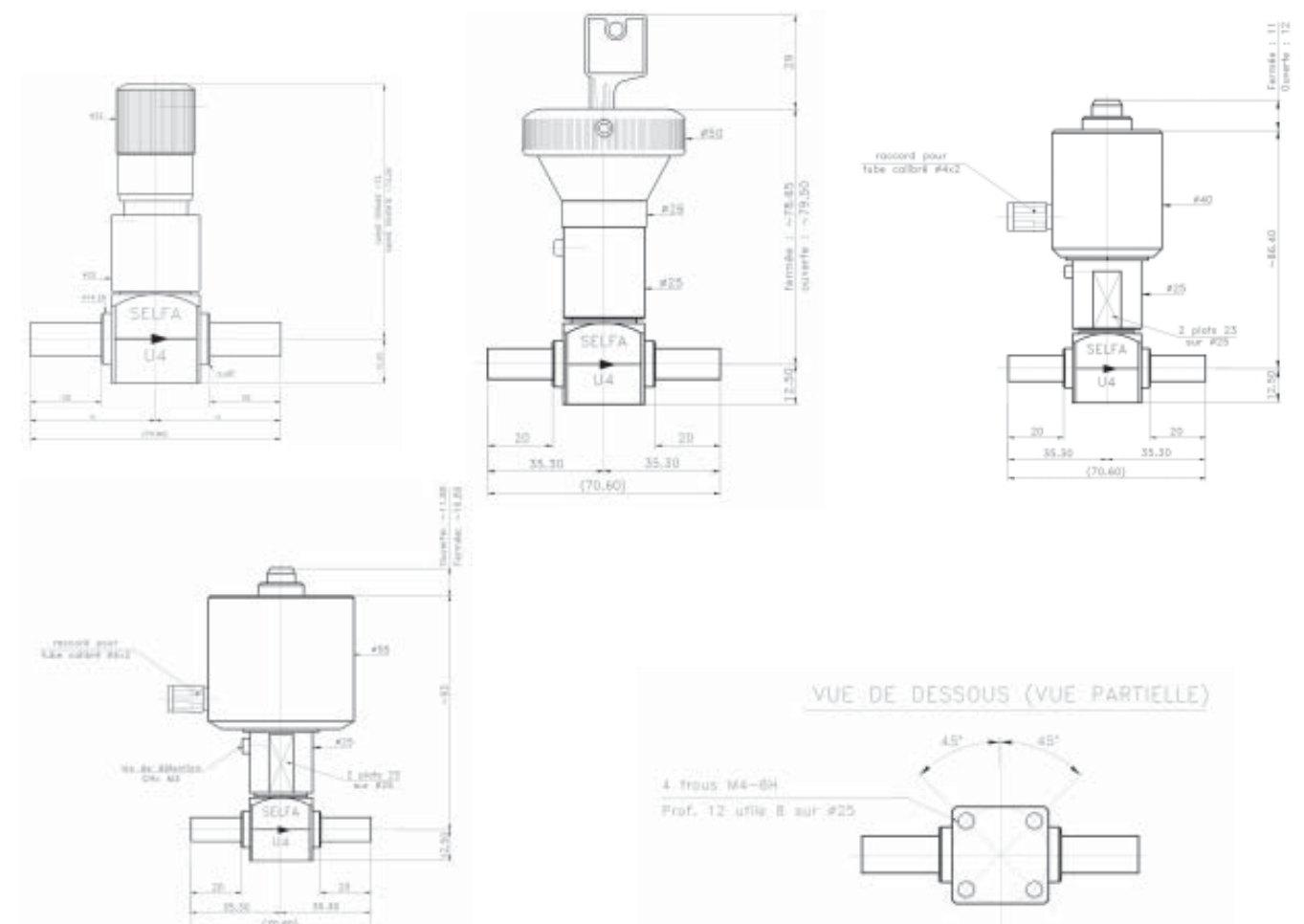
U4-U6



TECHNICAL DATA		
Fluid Media		Standard, High and Ultra High Purity, corrosive and non-corrosive gases
Max working pressure	U4/U6 Manual	240 bar (3500 PSI)
	U4/U6 Pneumatic - Low Pressure	30 bar (435 PSI)
	U4/U6 Pneumatic - High Pressure	200 bar (2900 PSI)
Min. operating pressure		Vacuum
Pneumatic actuator opening pressure		5 to 7 bar (75 to 100 PSI)
Temperature range		-20°C to + 80°C (-2°F to 176°F)
Flow coefficient	U4	$C_v = 0.3$
	U6	$C_v = 0.7$
Certified max. Helium inboard leak rate (at max. pressure)		$< 1.10^{-9}$ mbar.l/sec
Certified max. Helium outboard leak rate (at max. pressure)		$< 1.10^{-9}$ mbar.l/sec
Nominal seat diameter	U4	4 mm (0.16")
	U6	6 mm (0.23")
	U4/U6 Manual	0,250 kg
Weight	U4/U6 Pneumatic - Low Pressure	0,500 kg
	U4/U6 Pneumatic - High Pressure	0,750 kg

DIMENSIONS

Parts	Low Pressure	High Pressure
Bellows	Stainless Steel 316L	
Seat	PCTFE / PI (Vespe®)	
Actuator body	Anodized aluminum (white-painted for U grade)	



PART NUMBER							
Example :	U4 U	MT	2V1	I	/	K	A/B:B1/4
	1	2	3	4		5	6
							7

1 - Valve Series and Surface Finish	
U4-U6 U	UHP - Ra 0,15µm EP (6µin Ra)
U4-U6 V	HP - Ra 0,25µm EP (10µin Ra)
U4-U6 S	Standard - Ra 0,4µm (15 µin Ra)

3 - Valve Configurations	
2V1	2 ports in line
Refer to the selection guide for other configurations	

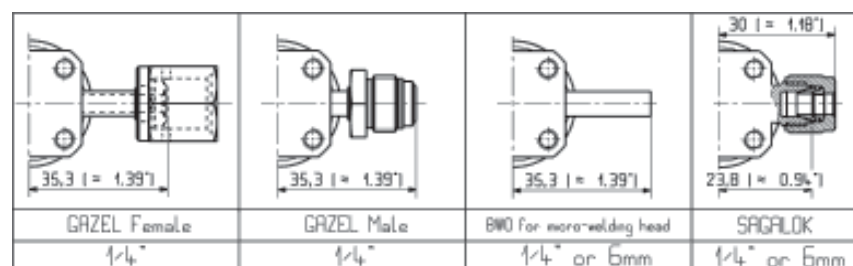
5 - Seat Material	
K	PCTFE (Kel-F®)
V	PI (Vespe®)
M	AISI 316L Metal seat*
*not available for HP applications	

7 - Options	
FT	Panel mounting
—	Back mounting
MRE1	Electric limit switch (LP/HP actuators)
MRE2	Electric limit switches (LP/HP actuators)
S	Security Bonnet in case of bellows failure

2 - Valve Actuation (Standard: Normally closed)	
MT	Multi-turn handwheel
3QT	3 Quarter-turn handwheel
MS	Multi-turn security handwheel with lock
LP	Pneumatically actuated - Low Pressure
HP	Pneumatically actuated - High Pressure
(Add - NO - for Normally Open version)	
(Add - NF - for normally close version)	

4 - Body Material	
I	AISI 316L

6 - End Connections	
V1/4-F	GAZEL® 1/4" - Female (Face Seal)*
V1/4-M	GAZEL® 1/4" - Male (Face Seal)*
B1/4	BWO 1/4" - Standard (Butt Weld Orbital)
B1/4-S	BWO 1/4" - Short (Butt Weld Orbital)
B6	BWO 6 mm (Butt Weld Orbital)
B12	BWO 12 mm (Orbital Weld)
RDB 1/4	SAGALOK Double ring fitting: 1/4"
RDB 6	SAGALOK Double ring fitting: 6 mm
SW 1/4	SW 1/4" (Socket Weld)
SW 6	SW 6 mm (Socket Weld)

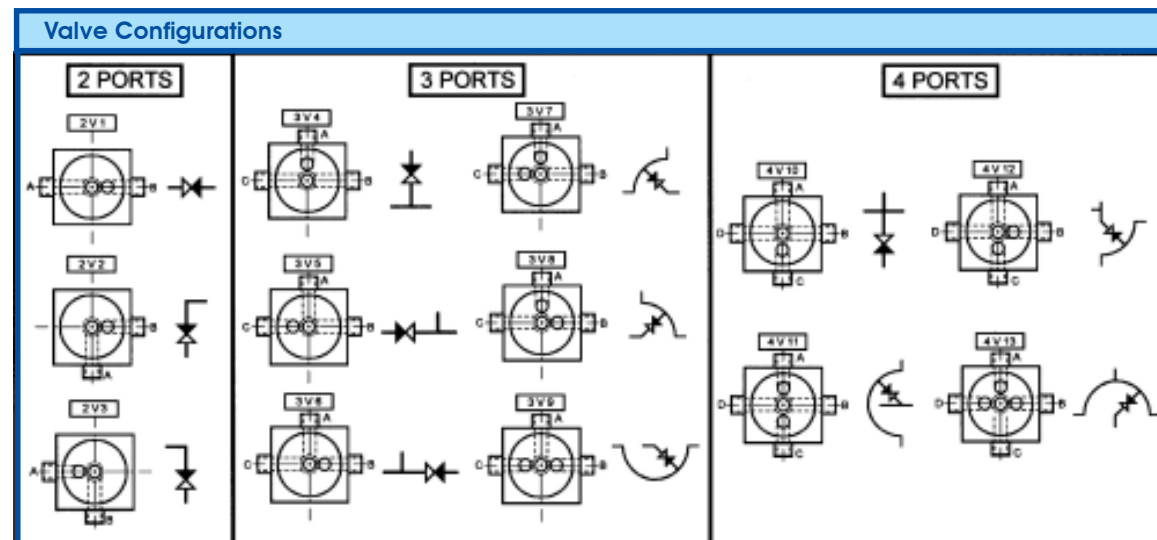


GAZEL® -Male
(face seal)*

GAZEL® -Female
(face seal)*

BWO for micro-
welding heads

SAGALOK Double
ring fitting



*All GAZEL® Face Seals are VCR® compatible. VCR® is a registered trade mark of CAJON CO., HASTELLOY® is a registered trade mark of CABOT Corp., Kel-F® is a registered trade mark of 3M company, Vespe® is a registered trade mark of DUPONT, ELGILOY® is a registered trade mark of ELGILOY Company.

U4-U6
BELLOWS SEALED VALVES
FOR HP AND UHP APPLICATIONS
(STANDARD AND GAS SPECIFIC)

4/6

