

A total component solution, from source to process

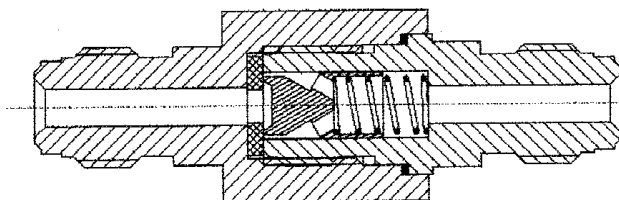
ARC4
NON RETURN SPRING LOADED DEVICE
FOR HP AND UHP APPLICATIONS
(STANDARD AND GAS SPECIFIC)

4



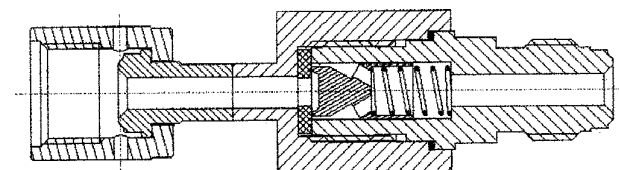
PCTFE to Metal sealing
to atmosphere

Removable valve insert, no
need to withdraw valve
body from gas distribution
line in case of internal
component change
(or welded)



Delta P = 0.5 bar
(1.25 PSI)

High leak integrity
(10^{-9} m³/bar/sec)



Compact size

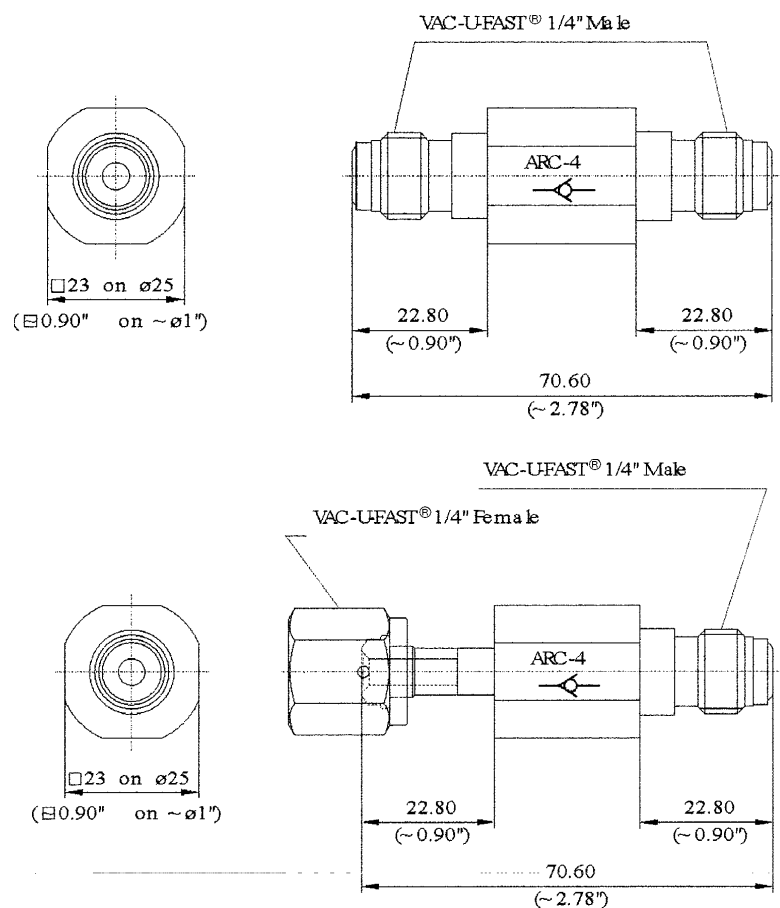
Same valve module
as M 4.1 and M 8.1

CONSTRUCTION MATERIALS

		Valve Grade & Materials		
Parts		ARC-4 S	ARC-4 V	ARC-4 U
Body			Stainless Steel 316L	
Body Surface Finish	Average Roughness			< 0,18 µm (7 Ra) EP
	Maximal Roughness	< 0,4 µm (15 Ra)	< 0,4 µm (15 Ra) EP	< 0,25 µm (10 Ra) EP
Connection Inlet / Outlet		Stainless Steel 316L		
Spring		Stainless Steel 316L		
Seat material		EPDM or FPM		

TECHNICAL DATA		
Fluid Media		Standard, High and Ultra High Purity, corrosive and non-corrosive gases
Max. operating pressure	FPM Seat	30 bar (435 PSI)
	EPDM Seat	240 bar (3480 PSI)
Min. operating pressure		Vacuum
Temperature range	FPM Seat	-20°C to + 200°C (-2F to 390F)
	EPDM seat	-55°C C to +100°C (-65F to 210F)
Cracking pressure		1/3, 5, 10, 2S PSI
Certified max. Helium outboard leak rate (at max. pressure)		< 10 ⁻⁹ mbar.l/sec
Nominal Seat Diameter		4 mm

DIMENSIONS



PART NUMBER						
EXAMPLE:	ARC-4 U	I	/	F	V1/4-M - V1/4-M	10
	1	2		3	4	5

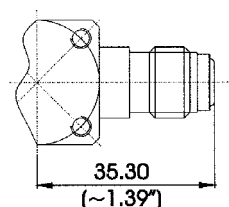
1 - Valve Series	
ARC-4 U	UHP - Ra 0.15µm Ep. (6 Ra)
ARC-4 V	HP - Ra 0.4µm Ep. (15 Ra)
ARC-4 S	Standard Version - Ra 0.4µm (15 Ra)

2 - Seat Material	
F	FPM
E	EPDM

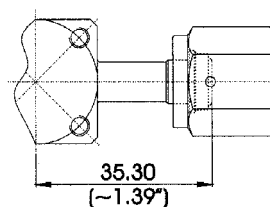
3 - Body Material	
I	AISI 316L

4 - End Connections	
V 1/4-F	VAC-U-FAST® 1/4" - Female (Face Seal*)
V 1/4-M	VAC-U-FAST® 1/4" - Male (Face Seal*)

5 - CRACKING PRESSURE	
1/3 - 3 - 10 - 25	



VAC-U-FAST® Male
(Face Seal*)



VAC-U-FAST® Female
(Face Seal*)

SELFA Valves & Fittings (part of the **ROTAREX Group**), incorporates the manufacturing capabilities of **SELFA**, **SELFA-PURETEC** and **CEODEUX-PURETEC**. These companies have supplied components to the Semiconductor and Allied Industries for many years. **CEODEUX-PURETEC** is one of the world-wide leaders in the supply of HP & UHP cylinder valves and cylinder connections. **SELFA-PURETEC** products line includes HP & UHP line valves, regulators and fittings. Therefore they are one of the only companies that can truly supply a total component solution, from source to process.

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