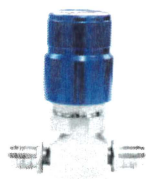


Pressure Regulators



VSR-50UB Series

Materials	316L EP
Inlet pressure	Vacuum to 150 psig
Outlet pressure	10/30/60/100 psig
Cv	0.06 (0.1 optional)
Surface finish	10/25 µin. Ra



VSR-50UC Series

Materials	316L secondary remelt
Inlet pressure	Vacuum to 150 psig
Outlet pressure	10/30/60/100 psig
Cv	0.06 (0.1 optional)
Surface finish	5/7/10/15 µin. Ra Max.



VSR-100UB Series

Materials	316L EP
Inlet pressure	300/3500 psig
Outlet pressure	VAC/10/30/60/100/150 psig
Cv	0.09 (0.15 optional)
Surface finish	10/25 µin. Ra



VSR-100UC Series

Materials	316L EP / 316L secondary remelt
Inlet pressure	300/3500 psig
Outlet pressure	VAC/10/30/60/100/150 psig
Cv	0.09 (0.15 optional)
Surface finish	5/7/10/15 µin. Ra Max.



VSR-210UB Series

Materials	316L EP
Inlet pressure	300/1700/3000 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	0.65 (1.1 HF option)
Surface finish	10/25 µin. Ra
Characteristic	Flow adjustable Optional



VSR-210UC Series

Materials	316L EP / 316L secondary remelt
Inlet pressure	300/1700/3000 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	0.65 (1.1HF optional)
Surface finish	5/7/10/15 µin. Ra Max.
Characteristic	Flow adjustable Optional



VSR-410UB Series

Materials	316L EP
Inlet pressure	300/2300/3000 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	0.45
Surface finish	10/25 µin. Ra
Characteristic	Optional negative pressure adjustment



VSR-410UC Series

Materials	316L EP / 316L secondary remelt
Inlet pressure	300/2300/3000 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	0.45
Surface finish	5/7/10/15 µin. Ra Max.
Characteristic	Optional negative pressure adjustment



VSR-510UB Series

Materials	316L EP
Inlet pressure	300/3500 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	0.09 (0.15 optional)
Surface finish	10/25 µin. Ra



VSR-510UC Series

Materials	316L EP / 316L secondary remelt
Inlet pressure	300/3500 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	0.09 (0.15 optional)
Surface finish	5/7/10/15 µin. Ra Max.



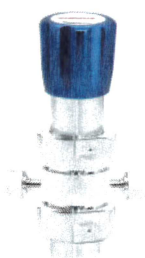
VSR-610UB Series

Materials	316L EP
Inlet pressure	300/3500 psig
Outlet pressure	VAC/10/30/60/100 psig
Cv	0.13
Surface finish	10/25 µin. Ra



VSR-610UC Series

Materials	316L EP / 316L secondary remelt
Inlet pressure	300/3500 psig
Outlet pressure	VAC/10/30/60/100 psig
Cv	0.13
Surface finish	5/7/10/15 µin. Ra Max.



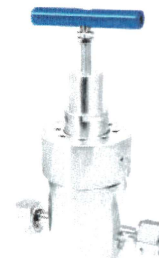
VSR-710UB Series

Materials	316L EP
Inlet pressure	3500 psig
Outlet pressure	VAC/30/60/100 psig
Cv	0.05
Surface finish	10/25 µin. Ra



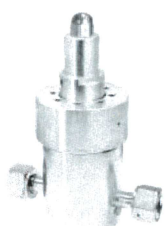
VSR-710UC Series

Materials	316L EP / 316L secondary remelt
Inlet pressure	3500 psig
Outlet pressure	VAC/30/60/100 psig
Cv	0.05
Surface finish	5/7/10/15 µin. Ra Max.



VSR-910UB Series

Materials	316L EP
Inlet pressure	800/1700/3000 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	3.0 / 4.0
Surface finish	10/15 µin. Ra



VSR-911UB Series

Materials	316L EP
Inlet pressure	800/1700/3000 psig
Outlet pressure	300 psig
Cv	3.0 / 4.0
Surface finish	10/15 µin. Ra



VSR-920UB Series

Materials	316L EP
Inlet pressure	300 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	1.6
Surface finish	10 µin. Ra



VSR-920UC Series

Materials	316L EP / 316L secondary remelt
Inlet pressure	300 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	1.6
Surface finish	10/15 µin. Ra



VSR-930UB Series

Materials	316L EP
Inlet pressure	6000 psig
Outlet pressure	100~2500 psig
Cv	0.09 (Cv=0.15 optional)
Surface finish	10/25 µin. Ra

Diaphragm valves



VDV31UA Series

Structure	Manual actuator
Working pressure	MAX. 4500 psig
Inlet / Outlet	6mm / 8mm Tube fitting 1/4" 1/8" Tube fitting
Cv	0.1
Seat materials	PCTFE



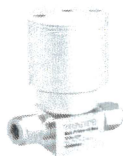
VDV32UA Series

Structure	Manual actuator
Working pressure	MAX. 150 psig
Inlet / Outlet	1/4" Tube fitting
Cv	0.3
Seat materials	PCTFE (Vespel / PFA optional)



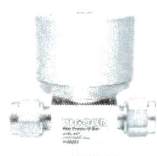
VDV32UA Series

Structure	Manual actuator
Working pressure	MAX. 150 psig
Inlet / Outlet	3/8" 1/2" Tube fitting
Cv	0.65
Seat materials	PCTFE (Vespel / PFA optional)



VDV32UA Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 150 psig
Inlet / Outlet	1/4" Tube fitting
Cv	0.3
Seat materials	PCTFE (Vespel / PFA optional)



VDV32UA Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 150 psig
Inlet / Outlet	3/8" 1/2" Tube fitting
Cv	0.65
Seat materials	PCTFE (Vespel / PFA optional)



VDV33UA Series

Structure	Manual actuator
Working pressure	MAX. 3000 psig
Inlet / Outlet	1/4" NPT 1/4" Tube fitting
Cv	0.1
Seat materials	PCTFE (Vespel / PFA optional)



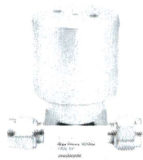
VDV33UA Series

Structure	Manual actuator
Working pressure	MAX. 3000 psig
Inlet / Outlet	3/8" 1/2" Tube fitting
Cv	0.5
Seat materials	PCTFE (Vespel / PFA optional)



VDV33UA Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 3000 psig
Inlet / Outlet	1/4" NPT 1/4" Tube fitting
Cv	0.1
Seat materials	PCTFE (Vespel / PFA optional)



VDV33UA Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 3000 psig
Inlet / Outlet	3/8" 1/2" Tube fitting
Cv	0.5
Seat materials	PCTFE (Vespel / PFA optional)



VDV31UB Series

Structure	Manual actuator
Working pressure	MAX. 3000 psig
Inlet / Outlet	1/4" VFS fitting
Cv	0.1
Seat materials	PCTFE



VDV32UB Series

Structure	Manual actuator
Working pressure	MAX. 150 psig
Inlet / Outlet	1/4" VFS fitting 1/4" Tube weld
Cv	0.3
Seat materials	PCTFE (Vespel / PFA optional)



VDV32UB Series

Structure	Manual actuator
Working pressure	MAX. 150 psig
Inlet / Outlet	1/2" VFS fitting 1/2" 3/8" Tube weld 3/4" VFS fitting
Cv	0.65
Seat materials	PCTFE (Vespel / PFA optional)



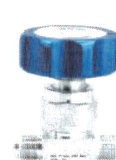
VDV32UB Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 150 psig
Inlet / Outlet	1/4" VFS fitting 1/4" Tube weld
Cv	0.3
Seat materials	PCTFE (Vespel / PFA optional)



VDV32UB Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 150 psig
Inlet / Outlet	1/2" VFS fitting 1/2" 3/8" Tube weld 3/4" VFS fitting
Cv	0.65
Seat materials	PCTFE (Vespel / PFA optional)



VSR-33UB Series

Structure	Manual actuator
Working pressure	MAX. 3000 psig
Inlet / Outlet	1/4" VFS fitting 1/4" Tube weld
Cv	0.1
Seat materials	PCTFE (Vespel / PFA optional)



VSR-33UB Series

Structure	Manual actuator
Working pressure	MAX. 3000 psig
Inlet / Outlet	1/2" VFS fitting Female 1/2" 3/8" Tube weld
Cv	0.5
Seat materials	PCTFE (Vespel / PFA optional)



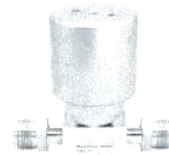
VSR-33UB Series

Structure	Manual actuator
Working pressure	MAX. 3000 psig
Inlet / Outlet	1/2" VFS fitting male 1/2" 3/8" Tube weld
Cv	0.5
Seat materials	PCTFE (Vespel / PFA optional)



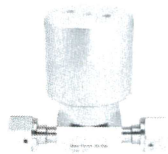
VDV33UB Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 3000 psig
Inlet / Outlet	1/4" VFS fitting 1/4" tube weld
Cv	0.1
Seat materials	PCTFE (Vespel / PFA optional)



VDV33UB Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 3000 psig
Inlet / Outlet	1/2" VFS fitting male 3/8" 1/2" tube weld
Cv	0.5
Seat materials	PCTFE (Vespel / PFA optional)



VDV33UB Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 3000 psig
Inlet / Outlet	1/2" VFS fitting Female 1/2" 3/8" Tube weld
Cv	0.5
Seat materials	PCTFE (Vespel / PFA optional)



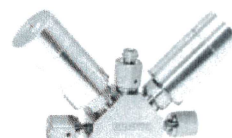
VDV52UB Series

Structure	Manual actuator
Working pressure	MAX. 300 psig
Inlet / Outlet	1/4" VFS fitting 1/4" tube weld
Cv	0.3
Seat materials	PCTFE (Vespel / PFA optional)



VDV52UB Series

Structure	Manual actuator
Working pressure	MAX. 300 psig
Inlet / Outlet	1/2" VFS fitting 3/8" 1/2" tube weld
Cv	0.65
Seat materials	PCTFE (Vespel / PFA optional)



VDV36 Series

Working pressure	MAX. 150 / 3000 psig
Surface finish	10µin. Ra
Inlet / Outlet	1/4" 1/2" VFS fitting, 1/4" 1/2" 3/8" tube weld
Cv	0.1 / 0.3
Materials	316L EP / 316L secondary remelt



VDV22UB Series

Structure	Manual actuator
Working pressure	MAX. 150 psig
Inlet / Outlet	1/4" VFS fitting male 1/2" VFS fitting male
Cv	1/4=0.3 1/2=0.65
Seat materials	PCTFE (Vespel / PFA optional)



VDV22UB Series

Structure	Pneumatic actuator (Normally opened / Normally closed)
Working pressure	MAX. 150 psig
Inlet / Outlet	1/4" VFS fitting male 1/2" VFS fitting male
Cv	1/4=0.3 1/2=0.65
Seat materials	PCTFE (Vespel / PFA optional)



VDV39 Series

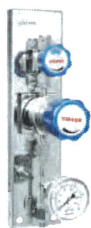
Structure	Manual actuator
Working pressure	MAX. 270 psig
Inlet / Outlet	3/4" VFS fitting 3/4" tube weld
Cv	2.8
Seat materials	PCTFE (Vespel / PFA optional)



VDV39 Series

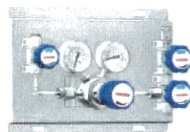
Structure	Manual actuator
Working pressure	MAX. 270 psig
Inlet / Outlet	1/2" VFS fitting, 1/2" tube weld
Cv	2.8
Seat materials	PCTFE (Vespel / PFA optional)

Pressure control panels / Accessories



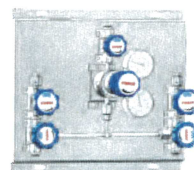
VUP-TG Series

Series	100TG/200TG/300TG
Inlet pressure	300 psig
Outlet pressure	30/60/100/150 psig
End connection	1/4" / 1/2" VFS fitting
Materials	316L / 316L secondary remelt



VUP-1U Series

Structure	Unilateral
Inlet pressure	300/3500 psig
Outlet pressure	VAC/10/30/60/100/150/ 720/1400/2900/3500 psig
Cv	0.09 (0.15 optional)
End connection	1/4" VFS fitting



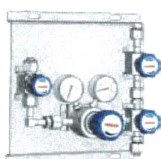
VUP-2U Series

Structure	Bilateral / Manual switch
Inlet pressure	300/3500 psig
Outlet pressure	VAC/10/30/60/100/150/720/ 1400/2900/3500 psig
Cv	0.09 (0.15 optional)
End connection	1/4" VFS fitting



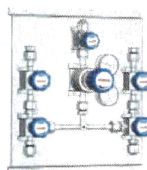
VUP-3U Series

Structure	Bilateral / Automatic switch
Inlet pressure	300/3500 psig
Outlet pressure	VAC/10/30/60/100/150/720/ 1400/2900/3500 psig
Cv	0.09 (0.15可选)
End connection	1/4" VFS接头



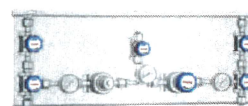
VUP-4U Series

Structure	Unilateral
Inlet pressure	300/1700/3000 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	0.65 (1.1 HF option)
End connection	1/2" VFS fitting



VUP-5U Series

Structure	Bilateral / Manual switch
Inlet pressure	300/1700/3000 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	0.65 (1.1 HF option)
End connection	1/2" VFS fitting



VUP-6U Series

Structure	Bilateral / Automatic switch
Inlet pressure	300/1700/3000 psig
Outlet pressure	VAC/30/60/100/150 psig
Cv	0.65 (1.1 HF option)
End connection	1/2" VFS fitting



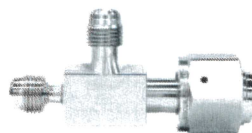
VMV Series

Name	Metering valves
Working pressure	MAX. 2000 psig
Cv	0.004~0.16
Inlet / Outlet	1/4" 1/8" 3/8" Tube fitting 6mm 3mm Tube fitting 1/4" 1/8" NPT fitting 1/4" VFS fitting
Materials	316



VUBV Series

Name	Bellows valves
Manual pressure	Vacuum 500 psig
Pneumatic pressure	Vacuum 125 psig
Operating pressure	45~120 psig
End connection	1/4" VFS fitting 1/4" Tube weld
Surface finish	5/7/10 μin. Ra



VVG Series

Name	Vacuum generators
Vacuum pressure	Max. -90 kPa
Inlet / Outlet	1/4" 1/2" VFS fitting
Vacuum connection	1/4" VFS fitting
Surface finish	0.25 / 0.4 μin. Ra
Source gas	Nitrogen



VUCV Series

Name	All-welded check valves
Working pressure	3000 psig
Cracking pressure	<2 psig
End connection	1/4" 1/2" VFS male
Seal materials	EPDM / Kalrez®



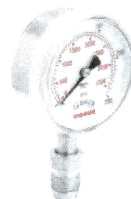
VFH Series

Name	Filters
Working pressure	2350 psig
Working temperature	-10~100°C
End connection	1/4" 1/2" VFS male
Filter element	316L



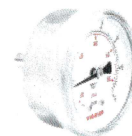
VRU Series

Name	Pressure gauge (Center-back)
Scale	bar/psig Dual scale
Inler connection	1/4" VFS fitting
Dial size	2"
Accuracy	Grade A per ASME B40.1



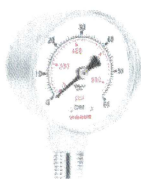
VGU Series

Name	Pressure gauge (Lower mount)
Scale	bar/psig Dual scale
Inler connection	1/4" VFS fitting
Dial size	2"
Accuracy	Grade A per ASME B40.1



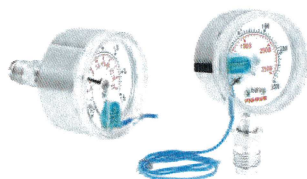
VRT Series

Name	Pressure gauge (Center-back)
Scale	bar/psig Dual scale
Inler connection	6mm / 1/4" Tube fitting
Dial size	2"
Accuracy	Grade A per ASME B40.1



VG Series

Name	Pressure gauge (Lower mount)
Scale	bar/psig Dual scale
Inler connection	1/4" NPT fitting
Dial size	2"
Accuracy	Grade A per ASME B40.1



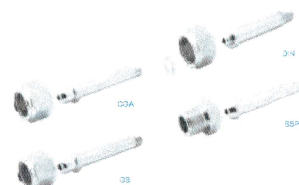
VGU20SE / VRU20SE Series

Name	Contact gauge (Lower mount / Center-back)
Scale	bar/psig Dual scale
Inler connection	1/4" VFS fitting
Dial size	2"
Accuracy	±2.5%



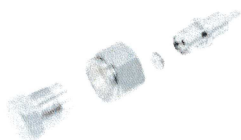
VCG20S / VRG20S Series

Name	Contact gauge (Lower mount / Center-back)
Scale	bar/psig Dual scale
Inler connection	VFS fitting
Dial size	2"
Accuracy	Grade A per ASME B40.1



VUC Series

Name	Cylinder connections
Inler connection	1/4" NPT, 6mm Tube fitting 6mm / 1/4" Tube weld
Surface finish	10/15 µin. Ra
Materials	316L



VUC DISS Series

Name	Cylinder connections
End connection	1/4" VFS fitting, 1/4" NPT 1/4" / 1/2" Tube weld
Gasket materials	Nickle / PCTFE



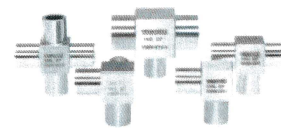
VTW Series

Name	Tube butt weld fittings
Type	Long Elbow / Long Tee / Reducing Union
Materials	316L



VVR Series

Name	Face seal fittings
Type	Glands / Nut / Gaskets / Cap / Plug / NPT Connectors
Materials	316L / 316Lsecondary remelt / Nickel



VMW Series

Name	Micro weld fittings
Type	Elbow / Tee / Cross / Reducing Union
Materials	316L