Specifications

Model XSA1-22 XSA1-22 XSA2-22 XSA2-32 XSA3-32 XSA3-30 XS XSA3-30 XS XSA3-30 XS XSA3-3 XS										
Internal Internal 1.3 x 10 ⁻⁶ 0.13 x 10 ⁻¹¹ {1 x 10 ⁻⁸ } Paramona VCR [®] 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁶ } 3/8B Poresting temperature °C 5 to 40 3/8B 3/8B Operating temperature °C 5 to 40 1/2/24/48/100VDC 3/8B Power consumption W 5 8 11 Allowable voltage fluctuation % 0.3 0.5 0.6	Model			XSA1-12	XSA1-22	XSA2-22	XSA2-32	XSA3-32	XSA3-43	
Orifice diameter mmø 2 3 4.5 6 Cv factor 0.17 0.33 0.6 1.05 Actuation pressure difference MPa ^{Note 1)} 0.8 0.3 1.0 0.3 0.8 0.3 Reverse pressure potential MPa ^{Note 2)} 0.5 0.25 0.4 0.2 0.2 0.15 Port A pressure Pa 1.3 x 10 ⁹ {1 x 10 ⁸ } at ordinary temperatures, excluding gas permeation 1.3 x 10 ⁹ {1 x 10 ¹⁰ } at ordinary temperatures, excluding gas permeation Leakage Pa m³/s {Torr d's} External 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } at ordinary temperatures, excluding gas permeation It is a torifficial for display temperatures and the second secon	Action			Normally closed direct acting 2 port solenoid valve						
Cv factor 0.17 0.33 0.6 1.05 Actuation pressure difference MPa ^{Note 1)} 0.8 0.3 1.0 0.3 0.8 0.3 Reverse pressure potential MPa Note 2) 0.5 0.25 0.4 0.2 0.2 0.15 Port A pressure Pa Internal 1.3 x 10 ⁻⁹ {1 x 10 ⁻⁹ } at ordinary temperatures, excluding gas permeation 1 x 10 ⁻¹⁰ Leakage { Pa m³/s { {Torr d's} } External 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } at ordinary temperatures, excluding gas permeation 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } Fitting VCR [®] 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } at ordinary temperatures, excluding gas permeation 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } 3/8B Operating temperature °C 5 to 40 3/8B 3/8B Operating temperature °C 5 to 40 8 11 Allowable voltage Huctuation % 5 8 11 Allowable voltage Huctuation % ±10 ±10 4	Fluid			Non corrosive gas for stainless steel (SUS405 equivalent)						
Actuation pressure difference MPa ^{Note 1)} 0.8 0.3 1.0 0.3 0.8 0.3 Reverse pressure potential MPa MPa ^{Note 2)} 0.5 0.25 0.4 0.2 0.2 0.15 Port A pressure Pa Internal 1.3 x 10 ⁻⁹ {1 x 10 ⁻⁹ } at ordinary temperatures, excluding gas permeation 1 x 10 ⁻¹⁰ 1 x 10 ⁻¹⁰ 0.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } 0.5 0.5 0.5 0.5 0.5 0.5 0.2 0.5 0.5 0.2 0.5 0.5 0.5 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.6 0.5 0.6 Leakage pressure pressure potential MPa ^{Note 2} / ₁ Internal 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹¹ {1 x 10 ⁻¹¹ } 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹¹ {1 x 10 ⁻¹¹ } 1.3 x 10 ⁻¹¹	Orifice diameter mmø			2	3		4.5		6	
Reverse pressure potential MPa Note 2) 0.5 0.25 0.4 0.2 0.2 0.15 Port A pressure Pa Internal 1.3 x 10° {1 x 10° } at ordinary temperatures, excluding gas permeation Leakage Pa m³/s {Torr //s} VCR® Imternal 1.3 x 10° {1 x 10° } at ordinary temperatures, excluding gas permeation Leakage {Pa m³/s {Torr //s}} External 1.3 x 10° {1 x 10° } at ordinary temperatures, excluding gas permeation VCR® Piping connection system VCR® Piping connection size 1/4B 3/8B Operating temperature °C 5 to 40 Rated voltage 100VAC (with full wave rectifier) 6/12/24/48/100VDC Power consumption W 5 8 11 Allowable voltage fluctuation % ±10	Cv factor			0.17	0.33		0.6		1.05	
Port A pressure Pa 1 x 10 ⁻⁶ Leakage Pa m³/s {Torr d/s} Internal 1.3 x 10 ⁻⁹ {1 x 10 ⁻⁸ } at ordinary temperatures, excluding gas permeation {Torr d/s} External 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } at ordinary temperatures, excluding gas permeation Piping connection system VCR [®] 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } at ordinary temperatures, excluding gas permeation Piping connection system VCR [®] {SWJ (Swagelok) [®] 3/8B Operating temperature °C 5 to 40 Rated voltage 100VAC (with full wave rectifier) 6/12/24/48/100VDC 5 Power consumption W 5 Allowable voltage fluctuation % ±10 Weight kg 0.3 0.5	Actuation pressure difference MPa ^{Note 1)}			0.8	0.3	1.0	0.3	0.8	0.3	
Leakage Pa m³/s {Torr #s} Internal 1.3 x 10 ⁻⁹ {1 x 10 ⁻⁸ } at ordinary temperatures, excluding gas permeation Leakage Pa m³/s {Torr #s} External 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } at ordinary temperatures, excluding gas permeation Fitting VCR® I.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } at ordinary temperatures, excluding gas permeation Piping connection size VCR® I.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } Connection size VCR®/SWJ (Swagelok)® 3/8B Operating temperature °C 5 to 40 3/8B Rated voltage 100VAC (with full wave rectifier) 6/12/24/48/100VDC Power consumption W 5 8 11 Allowable voltage fluctuation % 0.3 0.5 0.6	Reverse pressure potential MPa Note 2)			0.5	0.25	0.4	0.2	0.2	0.15	
Leakage Torr #s External 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } at ordinary temperatures, excluding gas permeation Fitting VCR® 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } Swagelok® 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } 3 x 10 ⁻¹¹ {1 x 10 ⁻⁹ } Piping connection size VCR®/SWJ (Swagelok)® 3/8B 3/8B Operating temperature °C 5 to 40 3/8B 3/8B Power consumption W 5 8 11 Allowable voltage fluctuation % 5 8 11 Meight kg 0.3 0.5 0.6	Port A pressure Pa			1 x 10 ⁻⁶						
VCR® 1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ } Swagelok® 1.3 x 10 ⁻¹¹ {1 x 10 ⁻⁹ } Piping connection system VCR®/SWJ (Swagelok)® Connection size 1/4B 3/8B Operating temperature °C 5 to 40 Rated voltage 100VAC (with full wave rectifier) 6/12/24/48/100VDC Power consumption W 5 8 11 Allowable voltage fluctuation % ±10 0.3 0.5 0.6		Internal		1.3 x 10 ⁻⁹ {1 x 10 ⁻⁹ } at ordinary temperatures, excluding gas permeation						
FittingSwagelok®1.3 x 10 ⁻¹⁰ {1 x 10 ⁻⁹ }Piping connection systemVCR®/SWJ (Swagelok)®Connection size1/4B3/8BOperating temperature °C5 to 40Rated voltage100VAC (with full wave rectifier)6/12/24/48/100VDCPower consumption W5811Allowable voltage fluctuation %±100.30.50.6	-	External		$1.3 \times 10^{-11} \{1 \times 10^{-10}\}$ at ordinary temperatures, excluding gas permeation						
Swagelok® 1.3 x 10 ⁻¹⁰ {1 x 10 ⁻⁹ } Piping connection system VCR®/SWJ (Swagelok)® Connection size 1/4B 3/8B Operating temperature °C 5 to 40 Rated voltage 100VAC (with full wave rectifier) 6/12/24/48/100VDC Power consumption W 5 8 11 Allowable voltage fluctuation % ±10 0.3 0.5 0.6		Eitting	VCR®	1.3 x 10 ⁻¹¹ {1 x 10 ⁻¹⁰ }						
Connection size1/4B3/8BOperating temperature °C5 to 40Rated voltage100VAC (with full wave rectifier)6/12/24/48/100VDCPower consumption W5811Allowable voltage fluctuation %±10Weight kg0.30.50.6		i itting	Swagelok®	1.3 x 10 ⁻¹⁰ {1 x 10 ⁻⁹ }						
Operating temperature °C 5 to 40 Rated voltage 100VAC (with full wave rectifier) 6/12/24/48/100VDC Power consumption W 5 8 11 Allowable voltage fluctuation % ±10 Weight kg 0.3 0.5 0.6	Piping connection system			VCR [®] /SWJ (Swagelok) [®]						
Rated voltage 100VAC (with full wave rectifier) 6/12/24/48/100VDC Power consumption W 5 8 11 Allowable voltage fluctuation % ±10 Weight kg 0.3 0.5 0.6	Connection size			1/4B 3/8E					3/8B	
Power consumption W 5 8 11 Allowable voltage fluctuation % ±10 5 9 0.3 0.5 0.6	Operating temperature °C			5 to 40						
Allowable voltage fluctuation %±10Weight kg0.30.50.6	Rated voltage			100VAC (with full wave rectifier) 6/12/24/48/100VDC						
Weight kg 0.3 0.5 0.6	Power consumption W			5	i	8	3	11		
	Allowable voltage fluctuation %			±10						
Service life (Million cycles) 2	Weight kg			0	.3	0	.5	0.6		
	Service life (Million	cycles)		2					

Note 1) The actuation pressure difference indicates the difference between Port P (high pressure side) and Port A (low pressure side).

Example) In the case of 0.3MPa, Port A is a vacuum (1Torr or less), while Port P can be pressurized to 0.2MPa {2kgf/cm²}.

Note 2) Reverse pressure potential indicates the pressure which can be applied from Port A when Port P is at atmospheric pressure.

Note 3) Indicates case of grommet type electrical entry.