



Series PVF

Angle seat valves with AISI 316 or 304 stainless steel body.

▶ **2-way angle seat valve. Threaded ports (Designed to prevent water hammer) - 1/2" ... 3"**



II 2G Ex h IIC T4..T2 Gb X
II 2D Ex h IIC T130°C..T*230 Db X
-10°C ≤ Ta ≤ +80°C

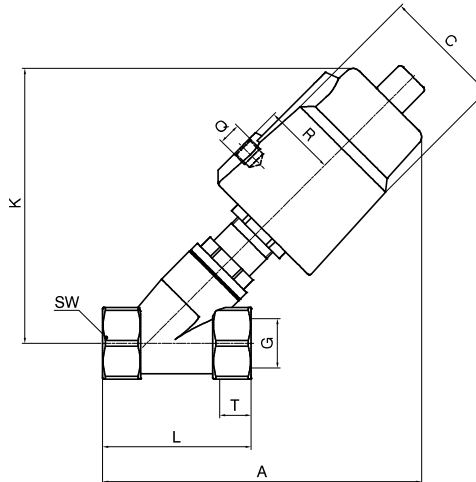


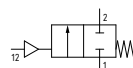
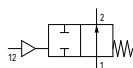
Table of dimensions

CODE	⊕ = Function		G connection	Actuator (mm)	C (mm)	R (mm)	K (mm)	Q (mm)	T (mm)	A (mm)	L (mm)	SW (mm)	⊕ = Material	
	N.O.	N.C.											AISI	
PVF40⊕15-⊕	0	1	1/2"	40	50,5	27	111	1/8"	15	119	68	27	304	316
PVF50⊕15-⊕				50	60	33	124	1/8"	16	131	75	32		
PVF50⊕20-⊕			3/4"	50	60	33	132	1/8"	16	140	75	32		
PVF50⊕25-⊕				50	60	33	136	1/8"	17	145	90	40		
PVF63⊕25-⊕			1"	63	75	41	162	1/8"	17	169	90	40		
PVF63⊕32-⊕				63	75	41	174	1/8"	21	187	116	50		
PVF90⊕32-⊕			1-1/4"	90	106	55	223	1/8"	21	235	116	50		
PVF63⊕40-⊕				63	75	41	175	1/8"	21	187	116	56		
PVF90⊕40-⊕			1-1/2"	90	106	55	223	1/8"	21	235	116	56		
PVF63⊕50-⊕				63	75	41	183	1/8"	22	201	138	69		
PVF90⊕50-⊕			2"	90	106	55	232	1/8"	22	250	138	69		
PVF125A⊕65-⊕				125 (Aluminium)	148	74	302	1/4"	26	320	178	85		
PVF125A⊕80-⊕			3"	125 (Aluminium)	148	74	313	1/4"	27	372	210	100		

Technical data (N.O. - N.C. versions)

CODE	⊕ = Function		G connection	KV (m³/h)	Actuator (mm)	Maximum ΔP (bar) (N.O.)		Maximum ΔP (bar) (N.C.)		Pilot pressure (bar)	⊕ = Material	
	N.O.	N.C.				Above seat	Under seat	Above seat	Under seat		AISI	
PVF40⊕15-⊕	0	1	1/2"	4,8	40	16	16	16	13	3 ... 8	304	316
PVF50⊕15-⊕				4,8	50	16	16	16	14			
PVF50⊕20-⊕			3/4"	10	50	12	16	16	14			
PVF50⊕25-⊕				14	50	3	13	16	8			
PVF63⊕25-⊕			1"	14	63	16	16	16	13			
PVF63⊕32-⊕				23	63	14	13	16	6			
PVF90⊕32-⊕			1-1/4"	23	90	/	/	16	16			
PVF63⊕40-⊕				30	63	14	7	16	5			
PVF90⊕40-⊕			1-1/2"	30	90	/	16	16	16			
PVF63⊕50-⊕				70	63	6	5	9	3			
PVF90⊕50-⊕			2"	70	90	/	12	16	10			
PVF125A⊕65-⊕				107	125 (Aluminium)	/	14	16	9			
PVF125A⊕80-⊕			3"	157	125 (Aluminium)	/	12	12	5	3 ... 10		

Pneumatic symbol



Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Actuator)
- High flow rate thanks to body configuration with inclined seating - Anti water hammer functioning with input below poppet - Pneumatically operated valve with stainless steel body, resistant to ambient corrosion - Self-levelling poppet to ensure improved sealing - Optical position indicator - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions OPTIONS (on request): - Double acting versions are available on request - Connection type: GAS ISO / NPT	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... + 180 °C - Ambient temperature: -10 °C ... + 80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids - Fluid temperature: max. +60 °C



2-way angle seat valve. Welded connection (Designed to prevent water hammer)



II 2G Ex h IIC T4..T2 Gb X
II 2D Ex h IIIC T130°C..T*230 Db X
-10°C ≤ Ta ≤ +80°C

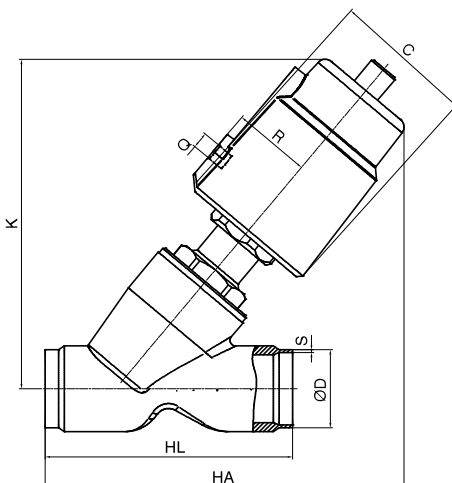


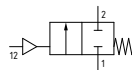
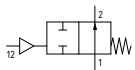
Table of dimensions

CODE	☉ = Function		Actuator (mm)	C (mm)	R (mm)	K (mm)	Q (mm)	HA (mm)	HL (mm)	DIN11850-2		DIN11850-3		☉ = Material	
	N.O.	N.C.								D	S	D	S	AISI 304	AISI 316
PVF40☉15H-☉	0	1	40	50,5	27	112	1/8"	118	70	19	1,5	20	2	A	B
PVF50☉15H-☉			50	60	33	125		128							
PVF50☉20H-☉			50	60	33	132		135	82	23		24			
PVF50☉25H-☉			50	60	33	136		150	100	29					
PVF63☉25H-☉			63	75	41	162		175				36			
PVF63☉32H-☉			63	75	41	174		186	125	35					
PVF90☉32H-☉			90	106	55	223		232							
PVF63☉40H-☉			63	75	41	175		190	130	41					
PVF90☉40H-☉			90	106	55	223		235							
PVF63☉50H-☉			63	75	41	183		206	155	53		54			
PVF90☉50H-☉			90	106	55	232		250							

Technical data (N.O. - N.C. versions)

CODE	☉ = Function		KV (m³/h)	Actuator (mm)	Maximum ΔP (bar) (N.O.)		Maximum ΔP (bar) (N.C.)		Pilot pressure (bar)	☉ = Material	
	N.O.	N.C.			Above seat	Under seat	Above seat	Under seat		AISI 304	AISI 316
PVF40☉15H-☉	0	1	4,8	40	16	16	16	13	3 ... 8	A	B
PVF50☉15H-☉			4,8	50	16	16	16	14			
PVF50☉20H-☉			10	50	12	16	16	14			
PVF50☉25H-☉			14	50	3	13	16	8			
PVF63☉25H-☉			14	63	16	16	16	13			
PVF63☉32H-☉			23	63	14	13	16	6			
PVF90☉32H-☉			23	90	/	/	16	16			
PVF63☉40H-☉			30	63	14	7	16	5			
PVF90☉40H-☉			30	90	/	16	16	16			
PVF63☉50H-☉			70	63	6	5	9	3			
PVF90☉50H-☉			70	90	/	12	16	10			

Pneumatic symbol



Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Actuator)
- High flow rate thanks to body configuration with inclined seating - Anti water hammer functioning with input below poppet - Pneumatically operated valve with stainless steel body, resistant to ambient corrosion - Self-levelling poppet to ensure improved sealing - Optical position indicator - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions OPTIONS (on request): - Double acting versions are available on request	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... +180 °C - Ambient temperature: -10 °C ... +80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids - Fluid temperature: max. +60 °C



2-way angle seat valve. Clamp ISO 2852 (Designed to prevent water hammer)



II 2G Ex h IIC T4..T2 Gb X
II 2D Ex h IIC T130°C..T*230 Db X
-10°C ≤ Ta ≤ +80°C

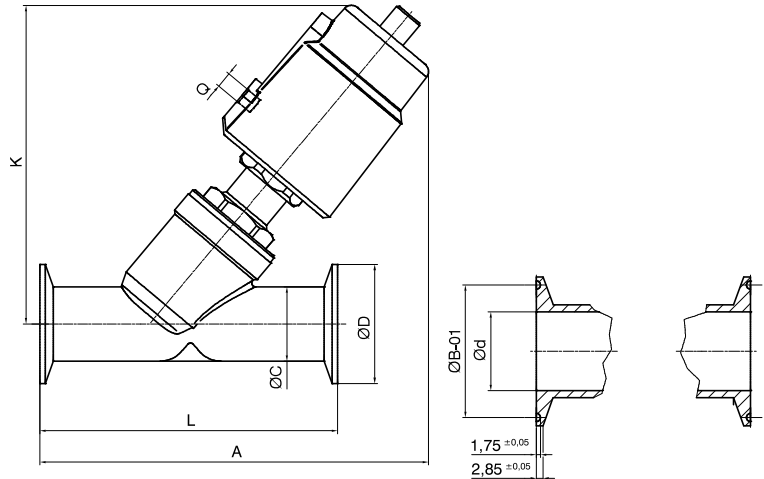


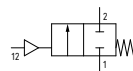
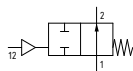
Table of dimensions

CODE	☐= Function		Actuator (mm)	A (mm)	K (mm)	Q (mm)	L (mm)	C (mm)	B (mm)	Ød	ØD	☐= Material	
	N.O.	N.C.										AISI 304	AISI 316
PVF40-15K-M	0	1	40	130	115	1/8"	80	19	27,5	15	34	A	B
PVF50-15K-M			50	140	126		130	25	43,5	19	50,5		
PVF50-20K-M			50	158	148		130	32	43,5	27	50,5		
PVF50-25K-M			50	165	140		130	32	43,5	27	50,5		
PVF63-25K-M			63	188	166		146	37	43,5	31	50,5		
PVF63-32K-M			63	200	174		160	40	56,5	33	64		
PVF90-32K-M			90	245	223		175	53	56,5	45	64		
PVF63-40K-M			63	210	175								
PVF90-40K-M			90	255	223								
PVF63-50K-M			63	221	185								
PVF90-50K-M			90	265	235								

Technical data (N.O. - N.C. versions)

CODE	☐= Function		KV (m³/h)	Actuator (mm)	Maximum ΔP (bar) (N.O.)		Maximum ΔP (bar) (N.C.)		Pilot pressure (bar)	☐= Material	
	N.O.	N.C.			Above seat	Under seat	Above seat	Under seat		AISI 304	AISI 316
PVF40-15K-M	0	1	4,8	40	16	16	16	13	3 ... 8	A	B
PVF50-15K-M			4,8	50	16	16	16	14			
PVF50-20K-M			10	50	12	16	16	14			
PVF50-25K-M			14	50	3	13	16	8			
PVF63-25K-M			14	63	16	16	16	13			
PVF63-32K-M			23	63	14	13	16	6			
PVF90-32K-M			23	90	/	/	16	16			
PVF63-40K-M			30	63	14	7	16	5			
PVF90-40K-M			30	90	/	16	16	16			
PVF63-50K-M			70	63	6	5	9	3			
PVF90-50K-M			70	90	/	12	16	10			

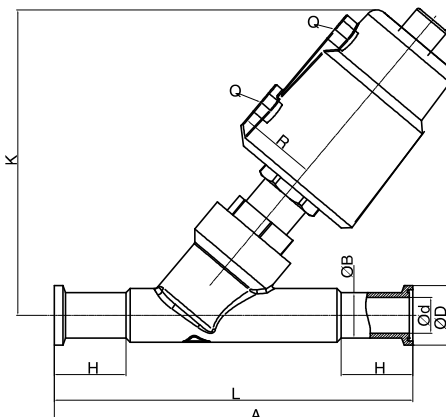
Pneumatic symbol



Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Actuator)
- High flow rate thanks to body configuration with inclined seating - Anti water hammer functioning with input below poppet - Pneumatically operated valve with stainless steel body, resistant to ambient corrosion - Self-levelling poppet to ensure improved sealing - Optical position indicator - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions OPTIONS (on request): - Double acting versions are available on request	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... +180 °C - Ambient temperature: -10 °C ... +80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids - Fluid temperature: max. +60 °C

2-way angle seat valve ASME - BPE (Designed to prevent water hammer)

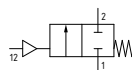
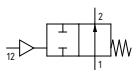

II 2G Ex h IIC T4..T2 Gb X
II 2D Ex h IIC T130°C..T*230 Db X
-10°C ≤ Ta ≤ +80°C


Table of dimensions

CODE	☉ = Function		Actuator (mm)	C (mm)	R (mm)	K (mm)	Q (mm)	A (mm)	L (mm)	ASME - BPE				☉ = Material	
	N.A.	N.C.								ØD (mm)	ØB (mm)	Ød (mm)	ØH (mm)	AISI 304	AISI 316
PVF40☉15J-☉	0	1	40	50.5	27	127	1/8"	158	130	25	12,7	9,4	30	A	B
PVF50☉15J-☉			50	60	33	140		169							
PVF50☉20J-☉			50	60	33	138		172							
PVF50☉25J-☉			50	60	33	146		180	160	50,5	25,4	22,1	30		
PVF63☉25J-☉			63	75	41	169		205							
PVF63☉40J-☉			63	75	41	177		225	200	50,5	38,1	34,8	30		
PVF90☉40J-☉			90	106	55	225		267							
PVF63☉50J-☉			63	75	41	187		238	230	64	50,8	47,5	30		
PVF90☉50J-☉			90	106	55	235		280							

Technical data (N.O. - N.C. versions)

CODE	☉ = Function		KV (m³/h)	Actuator (mm)	Maximum ΔP (bar) (N.O.)		Maximum ΔP (bar) (N.C.)		Pilot pressure (bar)	☉ = Material	
	N.O.	N.C.			Above seat	Under seat	Above seat	Under seat		AISI 304	AISI 316
PVF40☉15J-☉	0	1	1,7	40	16	16	16	13	3 ... 8	A	B
PVF50☉15J-☉				50	16	16	16	14			
PVF50☉20J-☉			5,8	50	12	16	16	14			
PVF50☉25J-☉				50	3	13	16	8			
PVF63☉25J-☉			11,8	63	16	16	16	13			
PVF63☉40J-☉				63	14	7	16	5			
PVF90☉40J-☉			20,6	90	/	16	16	16			
PVF63☉50J-☉				63	6	5	9	3			
PVF90☉50J-☉			55,7	90	/	12	16	10			

Pneumatic symbol


Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Actuator)
- High flow rate thanks to body configuration with inclined seating - Anti water hammer functioning with input below poppet - Pneumatically operated valve with stainless steel body, resistant to ambient corrosion - Self-heavelling poppet to ensure improved sealing - Optical position indicator - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions OPTIONS (on request): - Double acting versions are available on request	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... +180 °C - Ambient temperature: -10 °C ... +80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids - Fluid temperature: max. +60 °C

2-way angle seat valve. Flange mounting (Designed to prevent water hammer)



II 2G Ex h IIC T4..T2 Gb X
II 2D Ex h IIC T130°C..T*230 Db X
-10°C ≤ Ta ≤ +80°C

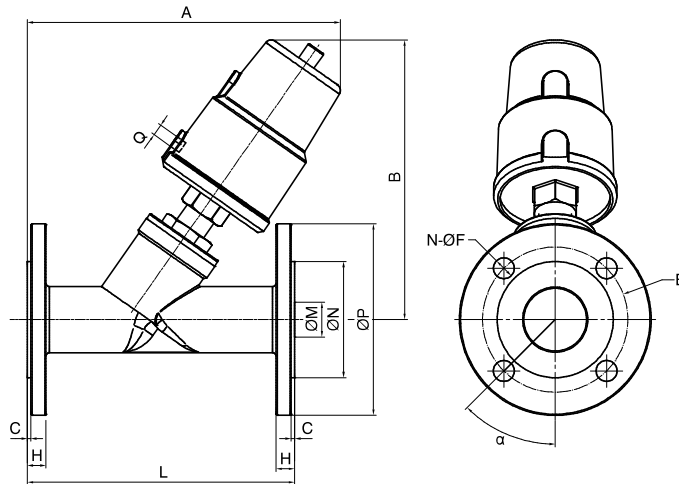


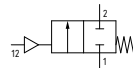
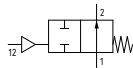
Table of dimensions

CODE	☐= Function		Actuator (mm)	A (mm)	B (mm)	Q (mm)	L (mm)	C (mm)	H (mm)	ØE	N-ØF	ØM	ØN	ØP	α	☐= Material	
	N.O.	N.C.														AISI 304	AISI 316
PVF40☐15F-☐	0	1	40	135	125	1/8"	130	2	14	65	4-14	16	45	95	45°	A	B
PVF50☐15F-☐			50	145	140		150	2	14	75	4-14	19	56	105			
PVF50☐20F-☐			50	165	140		150	2	14	75	4-14	19	56	105			
PVF50☐25F-☐			50	170	145		160	2	14	85	4-14	26	65	115			
PVF63☐25F-☐			63	190	175		180	2	16	100	4-18	31	78	140			
PVF63☐32F-☐			63	190	188		180	2	16	100	4-18	31	78	140			
PVF90☐32F-☐			90	230	235		200	3	16	110	4-18	38	84	150			
PVF63☐40F-☐			63	206	190		200	3	16	110	4-18	38	84	150			
PVF90☐40F-☐			90	250	240		230	3	16	125	4-18	49	100	165			
PVF63☐50F-☐			63	235	195		230	3	16	125	4-18	49	100	165			
PVF90☐50F-☐			90	277	245		230	3	16	125	4-18	49	100	165			

Technical data (N.O. - N.C. versions)

CODE	☐= Function		KV (m³/h)	Actuator (mm)	Maximum ΔP (bar) (N.O.)		Maximum ΔP (bar) (N.C.)		Pilot pressure (bar)	☐= Material	
	N.O.	N.C.			Above seat	Under seat	Above seat	Under seat		AISI 304	AISI 316
PVF40☐15F-☐	0	1	4,8	40	16	16	16	13	3 ... 8	A	B
PVF50☐15F-☐			4,8	50	16	16	16	14			
PVF50☐20F-☐			10	50	12	16	16	14			
PVF50☐25F-☐			14	50	3	13	16	8			
PVF63☐25F-☐			14	63	16	16	16	13			
PVF63☐32F-☐			23	63	14	13	16	6			
PVF90☐32F-☐			23	90	/	/	16	16			
PVF63☐40F-☐			30	63	14	7	16	5			
PVF90☐40F-☐			30	90	/	16	16	16			
PVF63☐50F-☐			70	63	6	5	9	3			
PVF90☐50F-☐			70	90	/	12	16	10			

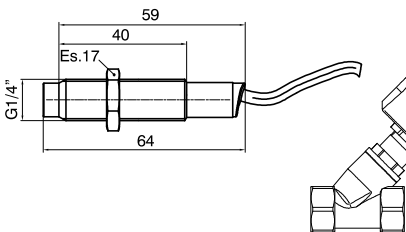
Pneumatic symbol



Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Actuator)
- High flow rate thanks to body configuration with inclined seating - Anti water hammer functioning with input below poppet - Pneumatically operated valve with stainless steel body, resistant to ambient corrosion - Self-levelling poppet to ensure improved sealing - Optical position indicator - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions OPTIONS (on request): - Double acting versions are available on request	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... +180 °C - Ambient temperature: -10 °C ... +80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids - Fluid temperature: max. +60 °C



Proximity sensor



Ordering code	
PVF. S	
OUTPUT TYPE	
01 = NPN (N.C.)	
02 = NPN (N.O.)	
03 = PNP (N.C.)	
04 = PNP (N.O.)	

Nickel brass sensor, usable on valves up to size 2 inches
for detection ON - OFF
Cable: 2 m
OPTIONS (on request):
A reduction is available for sizes 2 1/2" and 3".

Operational characteristics					
Maximum current (mA)	Voltage field (VDC)	Temperature (°C)	Detection distance	IP Rating	Weight (g)
100	10 ... 30	-10 ... +70	3 mm (max) ±10%	IP67	69