

Series 240

Types 3241-1 PSA, -7 PSA, -9 PSA Pneumatic Control Valves Type 3241 PSA Globe Valve

SAMSON

ANSI version

Application

Control valves for PSA plants (Pressure Swing Adsorption)

Valve sizes	NPS ½ to 6
Pressure rating	Class 150 to 300
Temperatures	-20 to 430 °F (-29 to +220 °C)
Standards	ANSI, ASME and ASTM

Type 3241 Globe Valve operated with

- Type 3271 Pneumatic Actuator (Type 3241-1 Control Valve)
- Type 3277 Pneumatic Actuator (Type 3241-7 Control Valve) for integral positioner attachment
- Type 3275 Pneumatic Piston Actuator (Type 3241-9 Control Valve)

Valve body made of

- Cast stainless steel according to ASTM specifications
- Forged steel or forged stainless steel
- Cast stainless steel

Undivided valve bonnet

Valve plug

- Soft seal or
- High-performance metal seal

The control valves, designed according to the modular assembly principle, can be equipped with various accessories:

Positioners, solenoid valves and other accessories according to IEC 60534-6-1 and NAMUR recommendation. Refer to Information Sheet ▶ T 8350 for more details.

Versions

Standard version for temperatures ranging from -20 to 430 °F (-29 to 220 °C)

- **Type 3241-1 PSA** (Fig. 1) · NPS ½ to 3 with Type 3271 Actuator (see Data Sheet ▶ T 8310-1)
- **Type 3241-7 PSA** (Fig. 2 and Fig. 4) · NPS ½ to 3, valve in forged steel up to NPS 3, with Type 3277 Actuator for integral positioner attachment (▶ T 8310-1)
- **Type 3241-9 PSA** (Fig. 3) · NPS ½ to 6, with Type 3275 Piston Actuator (▶ T 8314), for integral attachment of a positioner and/or limit switch

Further versions

- **Flow divider** for noise reduction in both directions of flow
- **DIN version** · See Data Sheet ▶ T 8015-1
- **Versions with dimensions according to Japanese Industry Standard (JIS)** · Details on request



Fig. 1: Type 3241-1 PSA
NPS ½ to 3



Fig. 2: Type 3241-7 PSA
NPS ½ to 3



Fig. 3: Type 3241-9 PSA
NPS ½ to 6



Fig. 4: Type 3241-7 PSA,
NPS ½ to 3
forged steel body

Principle of operation

The process medium flows through the valve in both directions. The valve plug position determines the cross-sectional area between the seat and plug.

Fail-safe position

Depending on how the springs are arranged in the Type 3271 or Type 3277 Actuator (► T 8310-1), the valve has two different fail-safe positions effective upon air supply failure:

Actuator stem extends (fail-close)

The valve closes when the supply air fails.

Actuator stem retracts (fail-open)

The valve opens when the supply air fails.

The double-acting Type 3275 Piston Actuator does not have a fail-safe action (see ► T 8314).

Notes on the differential pressure tables

The differential pressure tables have been prepared under the following conditions:

- The maximum permissible supply pressure is 4 bar (60 psi) for valves in sizes NPS ½ to 2 and actuators with an effective diaphragm area of 700 cm²
- Process medium in flow-to-open direction
- Version with PTFE packing
- The leakage rates specified in Table 1 are not exceeded with the maximum differential pressures specified.
- The specified differential pressure may be restricted by the pressure-temperature diagram.

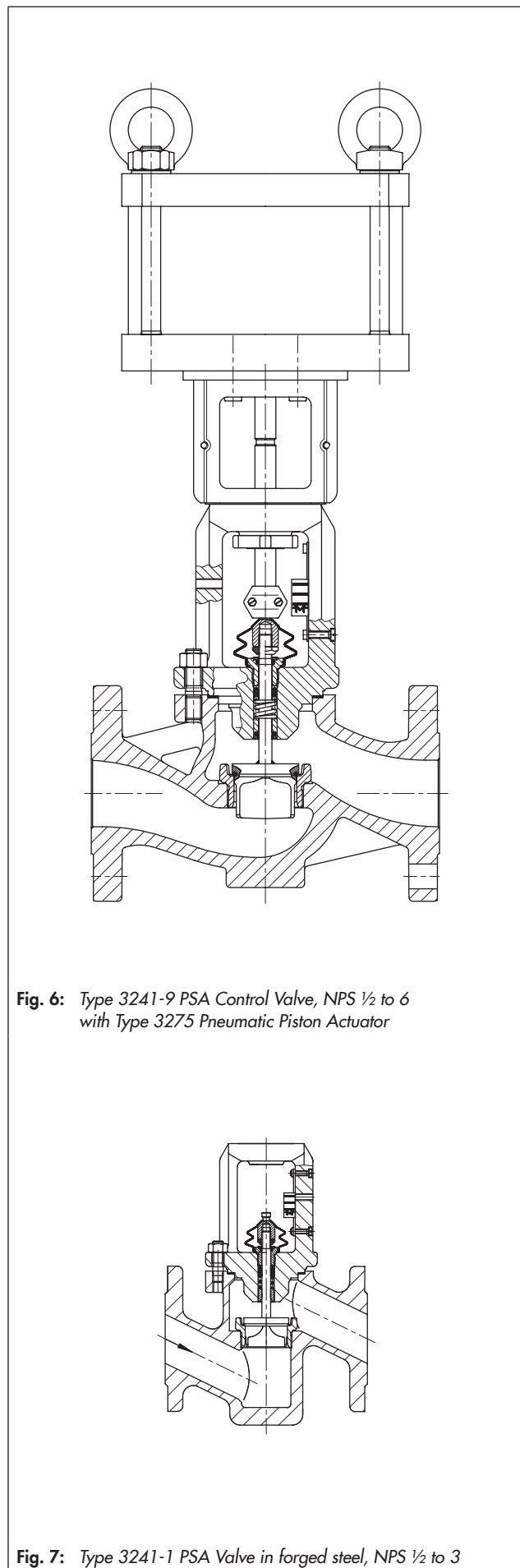
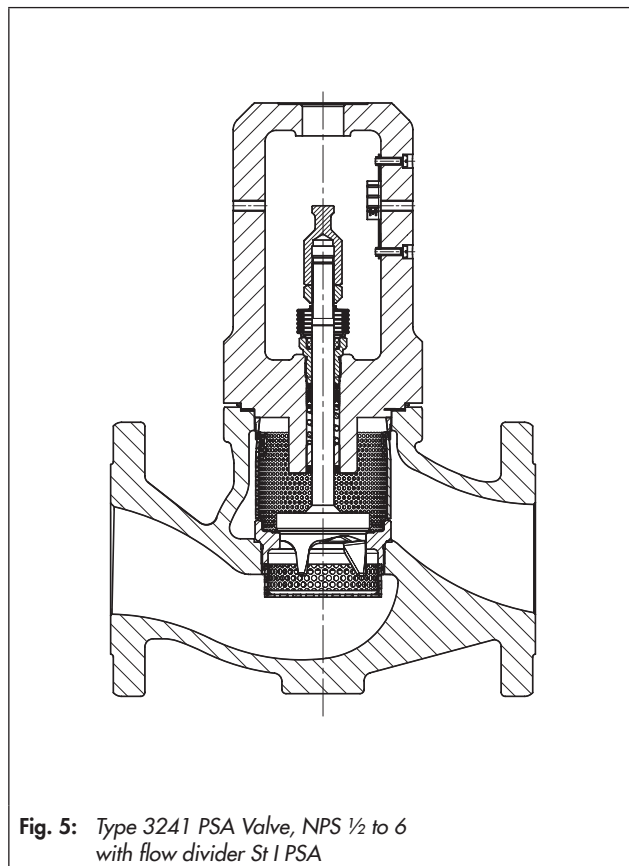


Table 1: Technical data for Type 3241 PSA Valve

Valve size	NPS	½ to 6	½, 1, 1½, 2, 3	½ to 6	½, 1, 1½, 2, 3
ASTM material		A216 WCC	A105	A351 CF8M	A182 F316
Type of end connections		Flange	Flange	Flange	Flange
Flange type		RF ¹⁾	RF ¹⁾	RF ¹⁾	RF ¹⁾
Pressure rating (ANSI Class)		150/300	300	150/300	300
Seat/plug seal	Soft seal or high-performance metal seal				
Characteristic	Equal percentage or linear				
Rangeability	50:1 for NPS ½ to 2 · 30:1 for NPS 2½ to 6				
Compliance	CE · EAC				
Temperature ranges in °C (°F) · Permissible operating pressures acc. to pressure-temperature diagram (see Information Sheet ► T 8000-2)					
Valve	-29 to 220 °C (-20 to 430 °F)				
Leakage class according to ANSI/FCI 70-2					
Valve plug	Soft seal	VI			
	High-performance metal seal	V			

¹⁾ Other versions on request

Table 2: Materials

Standard version				
Valve body ¹⁾	Cast steel A216 WCC	Forged steel A105	Cast stainless steel A351 CF8M	Forged stainless steel A182 F316
Valve bonnet	A105	A105	A182 F316	A182 F316
Seat and plug	1.4006	1.4006	1.4404	1.4404
	Seal ring for soft-seated plug: PTFE with glass fiber			
Guide bushings	1.4104	1.4104	1.4404	1.4404
Packing	V-ring packing: PTFE with carbon · Spring: 1.4310 · Stem protective ring			
Body gasket	Graphite on metal core			

¹⁾ Refer to pressure-temperature diagram, other materials available on request

Table 3: C_V and K_{VS} coefficients

Table 3.1: Overview (with flow divider St I PSA ($C_V I$, $K_{VS} I$))

C_V		2	3	5	7.5	12	20	30	47	70	75	95	120	190	300
K_{VS}		1.6	2.5	4.0	6.3	10	16	25	40	60	63	80	100	160	260
$C_V I$		1.5	2.3	3.7	6	9.5	15	23	37	56	60	75	95	145	245
$K_{VS} I$		1.3	2	3.2	5	8	13	20	32	48	50	63	80	125	210
Seat ØD	in	0.47	0.47	0.47	0.945	0.945	1.22	1.5	1.9	2.48	2.48	3.15	3.15	3.94	5.12
	mm	12	12	12	24	24	31	38	48	63	63	80	80	100	130
Travel	in	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	1.18	0.59	1.18	1.18	1.18
	mm	15	15	15	15	15	15	15	15	15	30	15	30	30	30

Table 3.2: Versions without flow divider

C_V		2	3	5	7.5	12	20	30	47	70	75	95	120	190	300
K_{VS}		1.6	2.5	4.0	6.3	10	16	25	40	60	63	80	100	160	260
Valve size NPS/DN															
½	15	•	•	•											
¾	20		•	•	•										
1	25			•	•	•									
1½	40					•	•	•							
2	50						•	•	•						
2½	65							•	•	•					
3	80								•	•		•			
4	100										•		•	•	
6	150												•	•	•

Table 3.3: Versions with flow divider St I PSA ($C_V I$, $K_{VS} I$) · Versions with cast bodies only

$C_V I$		1.5	2.3	3.7	6	9.5	15	23	37	56	60	75	95	145	245
$K_{VS} I$		1.3	2	3.2	5	8	13	20	32	48	50	63	80	125	210
Valve size NPS/DN															
½	15	•	•	•											
¾	20	•	•	•											
1	25	•	•	•	•										
1½	40				•	•	•	•							
2	50						•	•	•						
2½	65							•	•	•					
3	80								•	•		•			
4	100										•		•	•	
6	150												•	•	•

Terms for control valve sizing according to IEC 60534, Parts 2-1 and 2-2: $F_L = 0.95$, $X_T = 0.75$

Conversion of flow coefficients: C_V (US gallons/min.) = K_V (m³/h)/0.865

Table 4: Differential pressure tables for Type 3271 and Type 3277 Actuators with Type 3241 PSA Valve

Permissible differential pressures Δp for unbalanced plug with high-performance metal seal when $p_2 = 0$

- Values specified in the gray-shaded columns correspond to the standard application cases, i.e. operation with rated travel
- Differential pressures specified in the white columns apply to maximum pretensioned springs
- Values in parentheses are valid for 50 % travel.

Table 4.1: Fail-close valve · Pressures in bar

Bench range (bar) with actuator			240 cm ²	0.3 to 1.1	0.4 to 2.0 (1.2 to 2.0)	0.6 to 2.2	0.6 to 3.0 ¹⁾ (1.8 to 3.0)	0.9 to 3.3	–	–
			120 cm ²			0.2 to 1.0		0.8 to 2.4	1.2 to 3.6	1.4 to 2.3 (1.85 to 2.3)
Required supply pressure (bar)			1.2	1.4	2.2	2.6	3.2	3.8	2.5	3.5
Valve size NPS	C _v	Actuator cm ²	Δp when $p_2 = 0$ bar							
½ to 1	2	120	–	–	28	–	–	–	50	–
	3	240	28	47	50	50	50	50	–	–
	5	350	45	50	50	50	50	–	50	–
¾ to 1½	7.5	120	–	–	–	–	–	–	30	46
		240	–	–	14.8	24	24	39	–	–
	12	350	–	–	24	38	38	50	50	50
1 and 2	20	700	–	–	(50)	–	–	–	–	–
		240	–	–	–	14	14	23	–	–
		350	–	13.5	13.5	30	22	47	50	50
1½ to 2½	30	700	–	–	(50)	–	(50)	–	–	–
		350	–	–	–	20	14	31	37	50
2 to 3	47	700	–	–	(50)	–	(50)	–	–	–
		350	–	–	–	12	8.5	19	23	35
2½ and 3	70	700	–	–	(23)	–	(35)	–	(36)	(50)
3	95	700	–	–	1.4	–	(21)	–	(22)	(33)

¹⁾ Not for actuator with 120 cm² (18.6 in²) diaphragm area

Table 4.2: Fail-close valve · Pressures in psi

Bench range (psi) with actuator		240 cm ²	3 to 15	4 to 17	6 to 30 (18 to 30)	9 to 32	9 to 44 ¹⁾ (26 to 44)	13 to 48	–	–
		120 cm ² 350 cm ² 700 cm ²		6 to 18		12 to 35		18 to 52	20 to 34 (26 to 34)	30 to 40 (39 to 50)
Required supply pressure (psi)			18	21	33	38	47	55	38	55
Valve size NPS	C _v	Actuator cm ²	Δp when p ₂ = 0 psi							
1½ to 1	2	120	–	–	405	–	–	–	725	–
	3	240	406	680	725	725	725	725	–	–
	5	350	650	725	725	725	725	–	725	–
¾ to 1½	7.5	120	–	–	80	–	–	–	435	667
		240	–	–	215	350	350	565	–	–
	12	350	–	–	350	550	550	725	725	725
		700	–	–	(725)	–	–	–	–	–
1½ and 2	20	240	–	–	–	200	200	335	–	–
		350	–	195	195	435	320	680	725	725
		700	–	–	(725)	–	(725)	–	–	–
1½ to 3	30	350	–	–	–	290	200	450	535	725
		700	–	–	(725)	–	(725)	–	–	–
2 to 2½	47	350	–	–	–	175	123	275	330	507
		700	–	–	(725)	–	(725)	–	–	–
2½ and 3	70	700	–	–	(333)	–	(507)	–	(520)	(725)
3	95	700	–	–	20	–	(305)	–	(320)	(475)

¹⁾ Not for actuator with 120 cm² (18.6 in²) diaphragm area

Table 4.3: Fail-open valve · Pressures in bar and psi
Valve closed with required signal pressure

Bench range (bar/psi) with actuator (cm ²)			Pressures in bar			Pressures in psi		
			0.2 to 1.0			3 to 15		
Required supply pressure (bar/psi)			1.2	2.4	4	18	36	58
Valve size NPS	C _v	Actuator cm ²	Δp when p ₂ = 0 bar			Δp when p ₂ = 0 psi		
½ to 1	2	120	–	50	–	–	725	–
	3	240	28	50	–	410	725	–
	5	350	46	50	–	667	725	–
¾ to 1½	7.5	120	–	31	50	10	450	725
		240	–	50	50	–	725	725
	12	350	–	50	50	–	725	725
		700	24	50	–	350	725	–
1½ and 2	20	120	–	18	40	–	260	580
		240	–	37	50	–	540	725
		350	–	50	50	–	725	725
		700	–	50	–	–	725	–
1½ to 3	30	120	–	–	28	–	–	410
		240	–	24	50	–	350	725
		350	–	37	50	–	540	725
		700	–	50	50	–	725	725
2 to 2½	47	240	–	15	34	–	220	490
		350	–	23	50	–	330	725
		700	–	47	50	–	680	725
2½ and 3	70	240	–	–	20	–	–	290
		350	–	13	29	–	190	420
		700	–	27	50	–	390	725
3	95	240	–	–	12	–	–	170
		350	–	–	18	–	–	260
		700	–	16	37	–	230	540

Table 5: Permissible differential pressures for Type 3275 Piston Actuator with Type 3241 PSA Valve

Table 5.1: Type 3241-9 PSA Valve, plug with high-performance metal seal · Pressures in bar

Valve size NPS	Flow coefficient C _v	Actuator cm ²	Supply pressure [bar]							
			1.4	2	2.5	3	3.5	4	5	6
¾ to 1½	7.5 to 12	314	50	–	–	–	–	–	–	–
1½ to 2	20	314	26.5	47.3	50	–	–	–	–	–
		490	50	–	–	–	–	–	–	–
1½ to 2	30	314	14.4	28.2	39.8	50	–	–	–	–
		490	32.5	50	–	–	–	–	–	–
2	47	314	6.1	14.8	22.0	29.3	36.5	43.7	50	–
		490	17.5	31.0	42.3	50	–	–	–	–
3	47	314	6.0	14.7	21.9	29.1	36.4	43.6	50	–
		490	17.3	30.9	42.2	50	–	–	–	–
3	70	314	1.0	6.0	10.2	14.4	18.6	22.8	31.2	39.6
		490	7.5	15.4	22.0	28.5	35.1	41.6	50	–
3	95	314	–	1.9	4.5	7.2	9.8	12.4	17.6	22.8
		490	2.9	7.8	11.8	15.9	20.0	24.0	32.2	40.3
4	75	314	1.0	6.0	10.2	14.4	18.6	22.8	31.2	39.6
		490	7.5	15.4	22.0	28.5	35.1	41.6	50	–
		804	19.3	32.2	42.9	50	–	–	–	–
4	120	314	–	1.9	4.5	7.2	9.8	12.4	17.6	22.8
		490	2.9	7.8	11.8	15.9	20.0	24.0	32.2	40.3
		804	10.2	18.2	24.9	31.5	38.2	44.9	50	–
4 to 6	190	314	–	–	1.6	3.2	4.9	6.6	9.9	13.2
		490	0.5	3.6	6.2	8.8	11.4	14.0	19.2	24.4
		804	5.2	10.3	14.6	18.8	23.1	27.4	35.9	44.4
6	300	314	–	–	–	0.7	1.7	2.7	4.7	6.6
		490	–	1.0	2.5	4.1	5.6	7.1	10.2	13.3
		804	1.9	4.9	7.4	10.0	12.5	15.0	20.1	25.1

Table 5.2: Type 3241-9 PSA Valve, plug with high-performance metal seal · Pressures in psi

Valve size NPS	Flow coefficient C _v	Actuator cm ²	Supply pressure [psi]							
			20	30	38	44	55	60	75	90
¾ to 1½	7.5 to 12	314	725	–	–	–	–	–	–	–
1½ to 2	20	314	384.0	685.7	725	–	–	–	–	–
		490	725	–	–	–	–	–	–	–
1½ to 2	30	314	208.7	409.5	576.8	725	–	–	–	–
		490	471.3	725	–	–	–	–	–	–
2	47	314	88.8	214.7	319.5	424.4	529.3	634.1	725	–
		490	253.4	449.8	613.4	725	–	–	–	–
3	47	314	88.8	214.7	319.5	424.4	529.3	634.1	725	–
		490	253.4	449.8	613.4	725	–	–	–	–
3	70	314	15.0	88.1	148.9	209.8	270.7	331.6	453.3	575.1
		490	110.6	224.5	319.5	414.5	509.5	604.5	725	–
3	95	314	–	28.9	66.7	104.4	142.2	179.9	255.4	330.9
		490	42.9	113.6	172.5	231.4	290.3	349.2	467.0	584.9
4	75	314	15.0	88.1	148.9	209.8	270.7	331.6	453.3	575.1
		490	110.6	224.5	319.5	414.5	509.5	604.5	725	–
		804	281.0	468.0	623.9	725	–	–	–	–
4	120	314	–	28.9	66.7	104.4	142.2	179.9	255.4	330.9
		490	42.9	113.6	172.5	231.4	290.3	349.2	467.0	584.9
		804	148.6	264.6	361.2	457.9	554.6	651.2	725	–
4 to 6	190	314	–	–	23.3	47.5	71.7	95.8	144.1	192.5
		490	8.1	53.3	91.0	128.8	166.5	204.2	279.6	355.0
		804	75.8	150.0	211.9	273.7	335.6	397.4	521.2	644.9
6	300	314	–	–	–	10.9	25.2	39.5	68.1	96.7
		490	–	14.4	36.7	59.0	81.3	103.6	148.3	192.9
		804	27.7	71.6	108.2	144.8	181.4	218.0	291.2	364.4

Table 6: Permissible differential pressures for Type 3241-9 PSA Control Valve

Table 6.1: Type 3241-9 PSA Valve with soft-seated plug · Pressures in bar

Valve size NPS	Flow coefficient C _v	Actuator cm ²	Supply pressure [bar]							
			1.4	2	2.5	3	3.5	4	5	6
¾ to 1½	7.5 to 12	314	50	–	–	–	–	–	–	–
1½ to 2	20	314	47.8	50	–	–	–	–	–	–
1½ to 2	30	314	31.8	45.6	50	–	–	–	–	–
		490	50	–	–	–	–	–	–	–
2	47	314	19.9	28.6	35.8	43.0	50	–	–	–
		490	31.2	44.8	50	–	–	–	–	–
3	47	314	19.7	28.4	35.6	42.9	50	–	–	–
		490	31.1	44.6	50	–	–	–	–	–
3	70	314	11.4	16.5	20.7	24.9	29.1	33.3	41.6	50
		490	18.0	25.9	32.4	39.0	45.5	50	–	–
3	95	314	7.1	10.2	12.8	15.4	18.0	20.6	25.8	31.0
		490	11.2	16.0	20.1	24.2	28.2	32.3	40.4	48.5
4	75	314	11.4	16.5	20.7	24.9	29.1	33.3	41.6	50
		490	18.0	25.9	32.4	39.0	45.5	50	–	–
		804	29.8	42.7	50	–	–	–	–	–
4	120	314	7.1	10.2	12.8	15.4	18.0	20.6	25.8	31.0
		490	11.2	16.0	20.1	24.2	28.2	32.3	40.4	48.5
		804	18.4	26.4	33.1	39.8	46.4	50	–	–
4 to 6	190	314	4.5	6.5	8.2	9.8	11.5	13.2	16.5	19.8
		490	7.1	10.2	12.8	15.4	18.0	20.6	25.8	31.0
		804	11.8	16.9	21.2	25.4	29.7	34.0	42.5	50
6	300	314	2.7	3.8	4.8	5.8	6.8	7.8	9.8	11.7
		490	4.2	6.1	7.6	9.1	10.7	12.2	15.3	18.4
		804	7.0	10.0	12.5	15.0	17.6	20.1	25.1	30.2

Table 6.2: Type 3241-9 PSA Valve with soft-seated plug · Pressures in psi

Valve size NPS	Flow coefficient C _v	Actuator cm ²	Supply pressure [psi]							
			20	30	38	44	55	60	75	90
¾ to 1½	7.5 to 12	314	725	–	–	–	–	–	–	–
1½ to 2	20	314	692.8	725	–	–	–	–	–	–
1½ to 2	30	314	460.6	661.4	725	–	–	–	–	–
		490	725	–	–	–	–	–	–	–
2	47	314	288.2	414.1	518.9	623.8	725	–	–	–
		490	452.8	649.2	725	–	–	–	–	–
3	47	314	288.2	414.1	518.9	623.8	725	–	–	–
		490	452.8	649.2	725	–	–	–	–	–
3	70	314	167.0	240.0	300.9	361.8	422.6	483.5	605.3	725
		490	262.5	376.5	471.5	566.5	661.5	725	–	–
3	95	314	103.3	148.6	186.3	224.1	261.8	299.6	375.1	450.6
		490	162.5	233.2	292.1	351.0	410.0	468.9	586.7	704.5
4	75	314	167.0	240.0	300.9	361.8	422.6	483.5	605.3	725
		490	262.5	376.5	471.5	566.5	661.5	725	–	–
		804	432.9	620.0	725	–	–	–	–	–
4	120	314	103.3	148.6	186.3	224.1	261.8	299.6	375.1	450.6
		490	162.5	233.2	292.1	351.0	410.0	468.9	586.7	704.5
		804	268.2	384.2	480.9	577.6	674.2	725	–	–
4 to 6	190	314	65.9	94.9	119.1	143.2	167.4	191.5	239.9	288.2
		490	103.8	149.1	186.8	224.5	262.2	299.9	375.3	450.7
		804	171.5	245.7	307.6	369.4	431.3	493.2	616.9	725
6	300	314	38.8	56.0	70.3	84.6	98.9	113.2	141.8	170.4
		490	61.3	88.0	110.3	132.7	155.0	177.3	221.9	266.5
		804	101.3	145.2	181.8	218.4	255.0	291.6	364.9	438.1

Table 7: Dimensions for Type 3241-1 PSA, Type 3241-7 PSA and Type 3241-9 PSA in standard version**Table 7.1:** Type 3241-1 PSA Valve

Valve	NPS	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	
	DN	15	20	25	40	50	65	80	100	150	
Length L	Class 150 RF	in	7.25	7.25	7.25	8.75	10.0	10.88	11.75	13.88	17.75
		mm	184	184	184	222	254	276	298	352	451
	Class 300 RF	in	7.50	7.62	7.75	9.25	10.50	11.50	12.50	14.50	18.62
		mm	191	194	197	235	267	292	318	368	473
H1	≤ 700 cm ² and Type 3275	in	8.66	8.66	8.66	8.66	8.66	13.00	13.00	13.78	15.34
		mm	220	220	220	220	220	330 ¹⁾	330 ¹⁾	350 ¹⁾	390 ¹⁾
H2 (approx.)	in	1.77	1.77	1.77	2.84	2.84	3.86	3.86	4.45	6.89	
	mm	45	45	45	72	72	98	98	113	175	
H2 Forged steel version (approx.)	in	2.1	–	2.75	3.6	3.85	–	5.05	–	–	
	mm	53	–	70	92	98	–	128	–	–	

¹⁾ Add 65 mm to H1 when a Type 3275 Actuator with 804 cm² actuator area is mounted.

Table 7.2: Type 3271 and Type 3277 Pneumatic Actuators

Actuator area	cm ²	120	350	700
Diaphragm ØD	in	6.61	11.02	15.35
	mm	168	280	390
H ¹⁾	in	2.71	3.23	7.83
	mm	69	82	199
H3 ²⁾	in	4.33	4.33	7.48
	mm	110	110	190
H5	Type 3277 in	3.46	3.98	3.98
	Type 3277 mm	88	101	101
Thread	Type 3271	M30 x 1.5		
	Type 3277	M30 x 1.5		
α	Type 3271	G 1/8 (1/8 NPT)	G 3/8 (3/8 NPT)	G 3/8 (3/8 NPT)
α2	Type 3277	–	G 3/8	G 3/8

¹⁾ Height with welded-on lifting eyelet or height of eyebolt according to DIN 580. Height of the swivel lifting hook may differ. Actuators up to 355 cm² without lifting eyelet

²⁾ Minimum clearance to remove the actuator

Table 7.3: Type 3275 Piston Actuator

Actuator area	cm ²	314	490	804
Diaphragm □D	in	8.66	11.02	13.78
	mm	220	280	350
H	in	8.86	9.84	11.26
	mm	225 ¹⁾	250 ¹⁾	286
H3 ²⁾	in	4.33	4.33	7.48
	mm	110	110	190
H5	in	3.98	3.98	–
	mm	101	101	–
Thread		M30 x 1.5	M30 x 1.5	M60 x 1.5

¹⁾ Dimensions may differ for special version (e.g. for low temperatures)

²⁾ Minimum clearance to remove the actuator

Dimensions

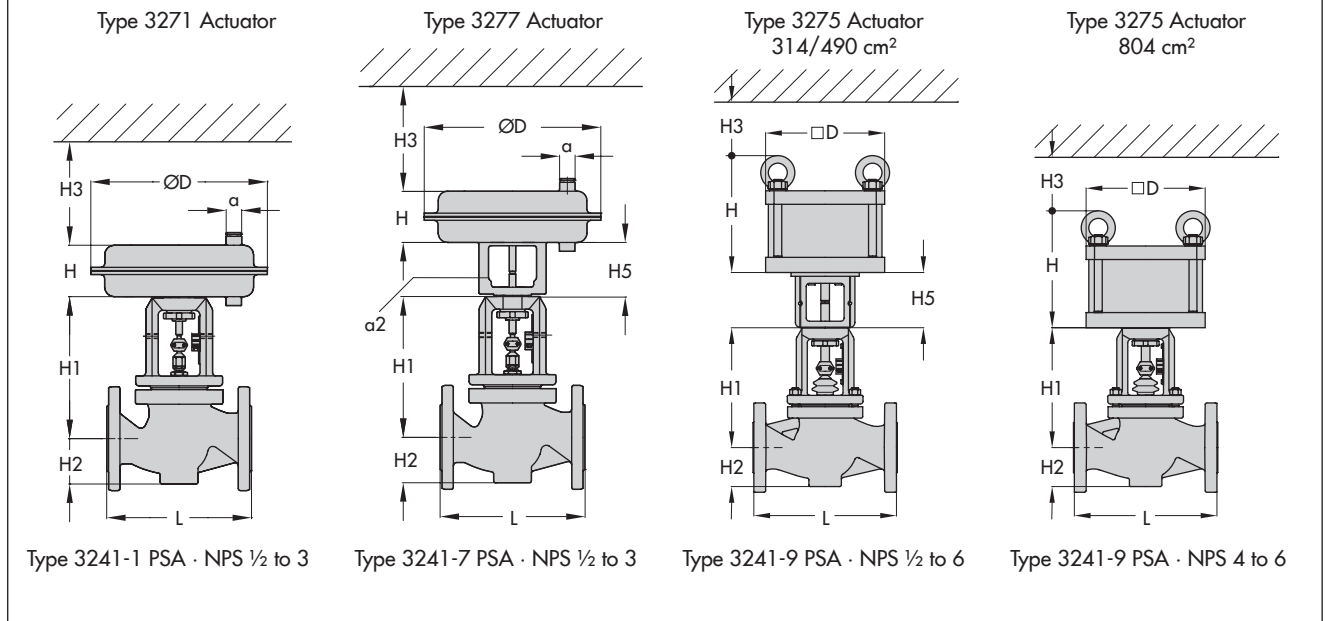


Table 8: Weights for Type 3241-1 PSA, Type 3241-7 PSA and Type 3241-9 PSA

Table 8.1: Type 3241-1 PSA Valve

Valve	NPS	½	¾	1	1½	2	2½	3	4	6
		DN	15	20	25	40	50	65	80	100
Weight without actuator	lbs	11	13	15	26	33	53	66	92	264
	kg	5	6	7	12	15	24	30	42	120

Table 8.2: Type 3271, Type 3277, and Type 3275 Actuators

Actuator	Type 3271			Type 3277			Type 3275			
	Effective area	cm ²	120	350	700	120	350	700	314	490
in ²		18.6	54.25	108.5	18.6	54.25	108.5	48.6	75.95	124.5
Weight, approx.	lbs	6.6	18	48.5	7.7	26.5	57.5	22	37.5	46.5
	kg	3	8	22	3.5	12	26	10	17	21

Ordering text

Globe valve	Type 3241 PSA
Valve size	NPS ...
Class	...
Body material	According to Table 2
Type of end connections	Flanges (RF or FF) or NPT thread
Seat and plug	Soft seal or high-performance metal seal
Characteristic	Equal percentage or linear
Pneumatic actuator	Type 3271. Type 3277 or Type 3275
Fail-safe position	Fail-close or fail-open
Process medium	Density in lb/cu.ft or kg/m ³ and temperature in °F or °C
Flow rate	lbs/h or kg/h or cu.ft/min or m ³ /h in standard or operating state
Pressure	p ₁ or p ₂ in bar or psi (absolute pressure) with minimum, normal and maximum flow rate
Valve accessories	Positioner and/or limit switch

Specifications subject to change without notice



SAMSON AG · MESS- UND REGELTECHNIK
Weismüllerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507
samson@samson.de · www.samson.de

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