# DATA SHEET

#### T 3008 EN



## Type 42-20 and Type 42-25 Differential Pressure Regulators

Series 42 Self-operated Pressure Regulators (opening) · ANSI version

# CE

#### **Application**

Differential pressure regulator for extended heating systems and industrial applications Differential pressure set points ( $\Delta p$ ) from **0.75 to 145 psi**/0.05 to 10 bar  $\cdot$  Valves **NPS** ½ **to 10**  $^{11}$ /DN 15 to 250  $\cdot$  Pressure rating **Class 125 to 300**  $\cdot$  Suitable for liquids and vapors  $^{21}$  from **40 to 660**  $^{\circ}$ F/5 to 350  $^{\circ}$ C, for air and non-flammable gases up to **175**  $^{\circ}$ F/80  $^{\circ}$ C

The valve opens when the differential pressure rises.

The differential pressure to be controlled is transmitted to the spring-loaded operating diaphragm in the actuator and converted into a positioning force to move the valve plug. The regulators control the differential pressure according to the adjusted set point.

#### **Special features**

- Type 42-20: Fixed set point
- Type 42-25: Set point adjustable in wide range
- Low-noise, medium-controlled proportional regulator requiring little maintenance
- Single-seated valve with a plug balanced by a stainless steel bellows or a diaphragm (NPS 2½ to 10/DN 65 to 250)
- Suitable for circuit water, water/glycol mixtures, steam and air as well as other liquids, gases and vapors, provided ed these do not affect the characteristics of the operating diaphragm
- Valve body optionally made of cast iron A126B, cast steel A216 WCC or cast stainless steel A351 CF8M

#### Versions

Differential pressure regulators for installation in a bypass pipe or short-circuit pipe (see Fig. 4) · Flanged connections

- Type 42-20 (Fig. 1) · Type 2422 Valve · Balanced by a bellows NPS ½ to 4/DN 15 to 100 · Balanced by a diaphragm NPS 2½ to 4/DN 65 to 100 · Type 2420 Actuator · Fixed set point, adjusted to Δp = 3, 4, 6 or 7 psi/0.2, 0.3, 0.4 or 0.5 bar
- Type 42-25 · Type 2422 Valve · Balanced by a bellows NPS ½ to 10/DN 15 to 250 · Balanced by a diaphragm NPS 2½ to 10/DN 65 to 250 · Type 2425 Actuator · Set point adjustable within the range between 0.75 to 145 psi/0.05 to 10 bar



Fig. 1: Type 42-20 Differential Pressure Regulator

Fig. 2: Type 42-25 Differential Pressure Regulator

#### Accessories

Required accessories, such as compression-type fittings, needle valves, compensation chambers and control lines, are listed in Data Sheet > T 3095.

#### **Special versions**

- Actuator with two diaphragms (Type 42-25)
- Actuator with FKM diaphragm, e.g. for mineral oils
- Special C<sub>V</sub>/K<sub>VS</sub> (reduced)
- Valve made of stainless steel (at least 1.4301)
- Valves larger than NPS 10/DN 250 on request
- Version for temperatures above 430 °F/220 °C
- Check valve for deionized water (► T 3010)
- Version free of non-ferrous metal on request

<sup>&</sup>lt;sup>1)</sup> Valves larger than NPS 10/DN 250 on request

<sup>2)</sup> Version balanced by a bellows only

- Special set point 8 to 16 bar for valves ≤ DN 100 on request
- Version for small flow rates  $\cdot$  Valve with micro trim with  $C_V$  0.0012 to 0.05/ $K_{VS}$  0.001 to 0.04 or  $C_V$  0.12, 0.5 and 1.2/ $K_{VS}$  0.1, 0.4 and 1 without pressure balancing

#### Principle of operation (see Fig. 3)

The medium flows through the valve in the direction indicated by the arrow. The position of the valve plug (3) determines the differential pressure over the cross-sectional area released between the plug (3) and seat (2).

The Type 2422 Valve is balanced. The forces acting on the valve plug created by the upstream and downstream pressures are balanced by a balancing bellows (5) or balancing diaphragm (5.1).

In valves balanced by a bellows, the upstream pressure  $p_1$  acts on the outside of the metal bellows (5), while the down-

stream pressure  $p_2$  acts on the inside of the bellows. In a valve balanced by a diaphragm, the downstream pressure  $p_2$  acts on the inside and the upstream pressure  $p_1$  on the outside of the balancing diaphragm (5.1). In both cases, the forces created by the upstream and downstream pressures acting on the valve plug are balanced out.

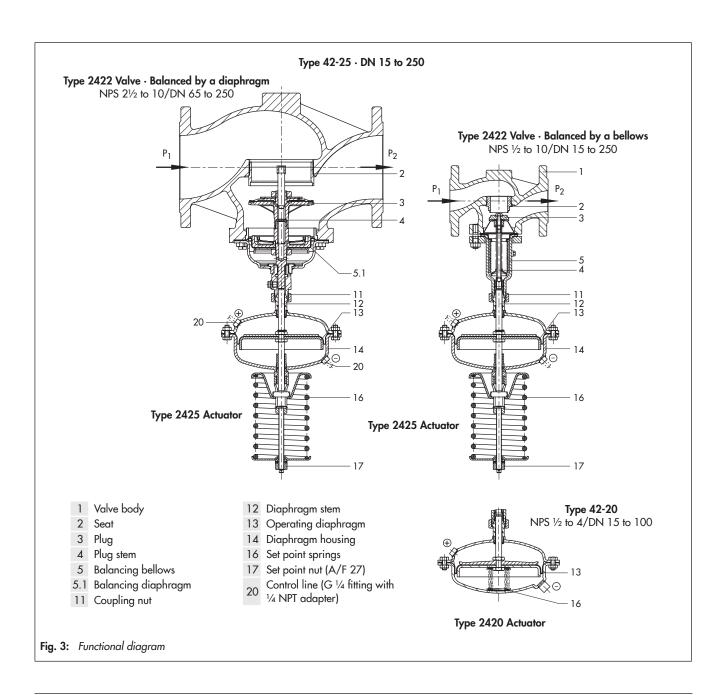
The differential pressure to be controlled is transferred to the operating diaphragm (13) where it is transformed into a positioning force. This force is used to move the plug (3) according to the force of the set point springs. The valve begins to open as soon as the differential pressure exceeds the set point.

In **Type 42-25**, the set point can be adjusted at the set point adjuster (17).

In **Type 42-20**, the set point springs (16) in the actuator determines the set point.

All versions have control lines to transfer the high pressure (+) and low pressure (-) to the actuator.

We offer a special version of Type 42-25 with an actuator with two diaphragms.



#### Type 42-25 Differential Pressure Regulator with two diaphragms

SAMSON offers a special version of Type 42-25 with an actuator with two diaphragms (see Fig. 5). The actuator with two diaphragms provides increased functional reliability.

An actuator with two diaphragms is always required when an FKM diaphragm is to be used. It is especially suitable for applications with thin oils (e.g. heat transfer oil).

The two diaphragms separate both diaphragm chambers connected to the high-pressure and low-pressure connections. They generate a positioning force from the differential pressure. The two diaphragms separate both diaphragm chambers connected to the high-pressure and low-pressure connections. They generate a positioning force from the differential pressure. A mechanical diaphragm rupture indicator (22) is located between the two diaphragms, which responds at approx. 22 psi/1.5 bar. In the event of a diaphragm rupture, the pressure in the space between the two operating diaphragm starts to increase. This causes the pin in the diaphragm rupture indicator to be pushed outwards and a red ring appears, indicating the diaphragm rupture. The intact operating diaphragm takes on the control task of the ruptured diaphragm.

A pressure switch can be optionally mounted to the actuator to trigger an alarm.

We recommend replacing both diaphragms after a diaphragm rupture is indicated.

#### Installing the valve and mounting the actuator

Valve, actuator and control lines (accessories) are delivered unattached.

A coupling nut is used to attach the actuator to the valve. Preferably mount the actuator after the valve is installed.

The following points must be observed:

- Install the valve in horizontal pipelines.
- The direction of flow must match the direction indicated by the arrow on the body.
- Install a strainer (e.g. SAMSON Type 2 NI) upstream of the valve.

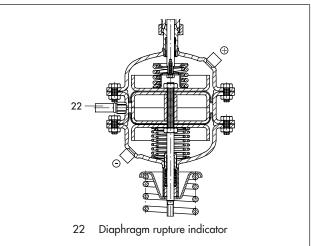


Fig. 5: Actuator with two diaphragms for Type 42-25 (special version)

#### Permissible mounting positions

- Actuator suspended: standard installation, all versions, above 175 °F/80 °C and for applications with steam
- Actuator sideways: versions balanced by a bellows with fixed plug guide
- Actuator upright (actuator on top of the valve): all versions NPS ½ to 3/DN 15 to 80 and max. 175 °F/80 °C

Refer to ► EB 3007 for details.

#### Application

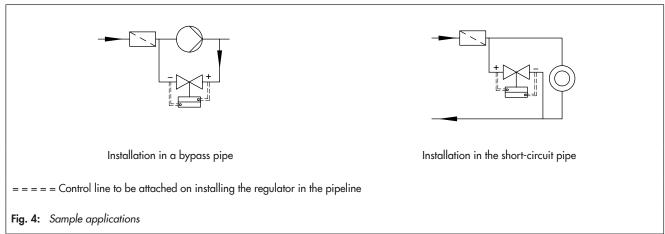


Table 1: Technical data

Туре			42	2-25		42-20 NPS ½ to 4/DN 15 to 100					
Nominal size		N	IPS ½ to 10,	/DN 15 to 2	50						
Pressure rating		Class 125, 150 and 300									
AA	Valve		See pressure-temperature diagram in ▶ T 3000								
Max. permissible temperature	Actuator 1)	With compensation chamber: steam and liquids up to 660 °F/350 °C <sup>2)</sup> Without compensation chamber: liquids up to 300 °F/150 °C, air and gases up to 175 °F/80 °C									
<b>.</b>	psi			8.5 · 3 to 1 <sub>4</sub> 30 to 75 · 65		3, 4, 6 or 7					
Set point ranges	bar			0.6 · 0.2 to 2 to 5 · 4.5 t		0.2 · 0.3 · 0.4 · 0.5					
	in <sup>2</sup>	12	25	50	100	25	50				
Actuator area A	cm <sup>2</sup>	80	160	320	640	160	320				
Max. perm. operating	psi	580	580	360	360	_					
pressure for actuator with two diaphragms	bar	40	40	25	25	-					
Leakage class according to	≤0.05 % of C <sub>V</sub> /K <sub>VS</sub> coefficient										
Conformity	CE										

**Table 2:** Materials · Material numbers according to ASTM and DIN EN

Table 2.1: Materials for Type 2422 Valve

Type 2422	Valve · Balanced by a bellows							
Nominal siz	æ		NPS 1/2 to 10	0/DN 15 to 2	250			
Pressure rati	ing	Class 125	Class 150 and 300		Class 150 and 300			
Valve body		Cast iron A126B	Cast s A216 V		Cast stainless steel A351 CF8M			
Valve seat		Stainless steel 1.	4104 or 1.4006	ı	1.4404			
nl .	Up to NPS 4/DN 100	Stainless steel 1.4104	l, 1.4112 or 1.40	006 <sup>1)</sup>	1.4404			
Plug	NPS 6 to 10/DN 150 to 250		1.4404, wi	th PTFE soft se	eal			
Plug stem			1.	.4301				
Metal bellov	vs	1.43	571 · NPS 6/DN	150 and lar	ger: 1.4404			
Bottom secti	on	P26	5GH		1.4571			
Body gasket		Graphite on metal core						
Type 2422	Valve · Balanced by a diaphragm							
Nominal siz	ze e	NPS 2½ to 4/DN 65 to 100						
Pressure rati	ing	Class 125			Class 150			
Valve body		Cast iron A126		Cast steel A216 WCC				
Valve seat			1.	.4408				
Plug			CV	V617N				
Pressure bal	ancing	Diaphragm plate EN-JS103	0 · EPDM balanc aphragm, mo		m, max. 300 °F/150 °C or NBR di- $\!\!\!\!$ 0 °C			
Nominal siz	æ		NPS 6 to 10	/DN 150 to 2	250			
Pressure rati	ng	Class 125	Class 150	and 300	Class 150 and 300			
Valve body		Cast iron	Cast s	teel	Cast stainless steel			
valve body		A126B	A216 WCC		A351 CF8M			
Valve seat		CC499K <sup>2)</sup>						
Plug		CC499K <sup>2)</sup> · With EPDM soft seal, max. 300 °F/150 °C or with PTFE soft seal, 300 °F/150 °C						
Pressure bal	ancing	Diaphragm plate EN-JS1030 (EN-GJ2-400-15) · EPDM balancing diaphragm Max. 300 °F/150 °C or NBR diaphragm, max. 175 °F/80 °C						

Optionally with soft seal with standard  $C_{V}/K_{VS}$  coefficients Special version 1.4409

Higher temperatures on request Steam version only with valves balanced by a bellows

Table 2.2: Materials for Type 2420/Type 2425 Actuator

Type 2420/Type 2425 Actuator						
Valve body	Cast iron A126B	Cast stainless steel A351 CF8M				
Diaphragm cases	DD	1.4301				
Diaphragm	EPDM 1) with fabric reinforcement					
Guide bushing	DU bi	PTFE				
Seals	EPDM/PTFE 1)					

<sup>1)</sup> Special version, e.g. for mineral oils: FKM

**Table 3:**  $C_V/K_{VS}$  coefficients,  $x_{FZ}$  values and max. permissible differential pressures Terms for control valve sizing according to IEC 60534, Parts 2-1 and 2-2:  $F_L = 0.95$ ,  $X_T = 0.75$ 

Type 2422 Valve	e · Balaı	nced by a l	pellows										
A1 . I .	NPS	1/2 1)	3/4 1)	<b>1</b> 1)	11/2	2	<b>2</b> ½	3	4	6	8	10	
Nominal size	DN	15	20	25	40	50	65	80	100	150	200	250	
Valve travel		0.4"/10 mm					0.6"/16 mm			C	0.9"/22 mm		
K <sub>VS</sub> /C <sub>V</sub> :	$C_V$	5	7.5	9.4	23	37	60	94	145	330	490	590	
standard	K <sub>VS</sub>	4	6.3	8	20	32	50	80	125	280	420	500	
Max. perm. diffe pressure Δp	erential		360 psi/25 bar				290 psi/20 bar		230 psi/ 16 bar	175 psi/ 12 bar	145 psi/10 bar		
Reduced C <sub>v</sub> /	C <sub>v</sub>	-	-	5	9.4	20	3	37	94	145	330		
K <sub>VS</sub> coefficient	K <sub>VS</sub>	-	-	4	8	16	3	32	80	125	280		
Max. perm. diffe pressure Δp	erential			36	60 psi/25 k	oar	290 psi/ 20 bar		230 psi/ 16 bar	175 psi/12 bar			
x <sub>FZ</sub> value		0.65	0.6	0.55	0.45	0	.4		0.35		0.3		

Special valve version with micro-trim:  $C_V$  0.0012 to 0.05/ $K_{VS}$  0.001 to 0.04 or  $C_V$  0.12, 0.5 and 1.2/ $K_{VS}$  0.1, 0.4 and 1 without pressure balancing

Type 2422 Valve · Balanced by a diaphragm											
Nominal size	NPS	<b>2</b> ½	3	4	6	8	10				
	DN	65	80	100	150	200	250				
Valve travel			0.6"/15 mm		1.4"/35 mm						
K <sub>VS</sub> /C <sub>V</sub> coefficient	C <sub>V</sub>	60	95	150	445	760	930				
coefficient	K <sub>VS</sub>	50	80	125	380	650	800				
Max. perm. differential pressure Δp		175 psi	/12 bar	145 psi/10 bar	175 psi/12 bar	145 psi/10 bar					
x <sub>FZ</sub> value 0.4				0.35	0.3						

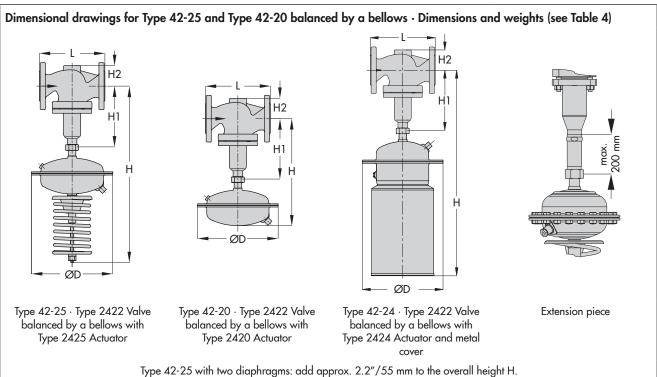


Table 4: Dimensions and weights for Type 42-20 and Type 42-25 · Balanced by a bellows

N . I .	NP		1/2	3/4	1	11/2	2	<b>2</b> ½	3	4	6	8	10	
Nominal siz	ze	DN	15	20	25	40	50	65	80	100	150	200	250	
	Class 125	inch		7.25		8.75	10	10.9	11.75	13.9	17.75	21.4	26.5	
1	and 150	mm		184		222	254	276	298	352	451	543	673	
Length L	Class 300	inch	7.5	7.6	7.75	9.25	10.5	11.5	12.5	14.5	18.6	22.4	27.9	
	Class 300	mm	190	194	197	235	267	292	318	368	473	568	708	
Height H1		inch			8.9			1	1.8	14	23.2	28	3.7	
neight n i		mm			225			3	00	355	590	7	30	
Cast si Height H2 Forgeo	Carat atacl	inch		1.73		2.	83	3	.93	4.65	6.9	9.6	10.6	
	Cast steel	mm		44		7	72	9	98	118	175	245	270	
	Forged	inch	2.1	_	2.76	3.62	3.86	_	5.05	_		_		
	steel	steel <sub>mm</sub>		_	70	92	98	_	128	_				
Type 42-20	Differential	Press	ure Regul	ator										
Set points	Type 2420	Actu	ator											
3, 4, 6,	Height H			15	5.4″/390 ו	mm		18.3"/465 mm			20.5"/	520 mm		
7 psi/0.2,	Actuator		$\emptyset$ D = 8.9"/225 mm · A = 25 in <sup>2</sup> /160 cm <sup>2 2</sup>					$\varnothing$ D = 11.2"/285 mm · A = 50 in <sup>2</sup> /320 cm <sup>2</sup>						
0.3, 0.4, 0.5 bar	Weight 3)	lb	25	27	29	44	50	84	95	126		_		
U.S bai	vveigili	kg	11.5	12	13	20	22.5	38	43	57				
Type 42-25	Differential	Press	ure Regul	ator										
Set points	Type 2425	Actu	ator											
0.75 to	Height H		24.6"/625 mm					27.6"/	27.6"/700 mm   29.7"/ 44.1"/ 49.6'			49.6"/1	260 mm	
<b>3.5 psi/</b> 0.05 to	Actuator		$\varnothing D = 11.2''/285 \text{ mm} \cdot A = 50 \text{ in}^2/320 \text{ cm}^{21}$					1	$\varnothing D = 11.2''/285 \text{ mm}$ A = 100 in <sup>2</sup> /640 cm <sup>2</sup>			ØD = 15.4"/390 mm · A = 100 in²/640 cm²		
0.25 bar	Woight 3)	lb	46	47	50	65	71	111	113	143	408	937	1069	
	Weight 3)	kg	21	21.5	22.5	29.5	32	46	51	65	185	425	485	

Optionally with actuator 100 in²/640 cm² Optionally with actuator 50 in²/320 cm²

The weight applies to the version with the material specifications A126B. Add +10 % for all other materials.

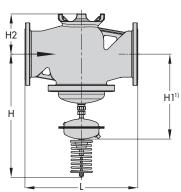
Table 4: Dimensions and weights for Type 42-20 and Type 42-25 · Balanced by a bellows

Nominal siz		NPS	1/2	3/4	1	11/2	2	<b>2</b> ½	3	4	6	8	10
Nominal Siz	æ	DN	15	20	25	40	50	65	80	100	150	200	250
1.5 to	Height H			24	1.6″/625 ι	mm		27.6″/	700 mm	29.7"/ 755 mm	44.1"/ 1120 mm	49.6"/1260 mm	
<b>8.5 psi/</b> 0.1 to	Actuator		$\emptyset D = 8$	3.9″/225	mm · A =	25 in²/16	0 cm <sup>2 2)</sup>		11.2"/28 50 in²/32			15.4"/390 00 in²/640	
0.6 bar	Weight 3)	lb	35.3	36.3	38.5	54	60	111	113	143	408	937	1069
	vveigili	kg	16	16.5	17.5	24.5	27	46	51	65	185	425	485
3 to 14.5 psi/ 0.2 to	Height H			24	1.6″/625	mm		27.6"/	700 mm	29.1"/ 740 mm	44.1"/ 1120 mm	49.6"/1	1260 mm
	Actuator			$\varnothing D = 8.9''/225 \text{ mm} \cdot A = 25 \text{ in}^2/160 \text{ cm}^{2.2}$								15.4"/390 00 in²/64	
1 bar	Weight 3)	lb	35	36	39	54	60	93	104	135	408	937	1069
	vveignr	kg	16	16.5	17.5	24.5	27	42	47	61	185	425	485
7 to	Height H			24.6"/625 mm 30"/700 mm 29.7"/ 755 mm							42.1"/ 1070 mm 47.6"/1210 mm		
<b>20 psi/</b> 0.5 to	Actuator			$\varnothing D = 8.9''/225 \text{ mm} \cdot A = 25 \text{ in}^2/160 \text{ cm}^{2.2}$								11.2″/283 50 in²/320	
1.5 bar	Weight 3)	lb	35	36	39	54	60	93	104	135	386	915	1047
		kg	16	16.5	17.5	24.5	27	42	47	61	175	415	475
14.5 to	Height H			24	1.6″/625	mm		27.6"/700 mm 29.7"/ 755 mm			42.1"/ 1070 mm 47.6"/1210 mm		
<b>35 psi/</b> 1 to	Actuator					ØD	9 = 8.9''/2	25 mm · A	$= 25 \text{ in}^2/$	160 cm <sup>2</sup>			
2.5 bar	Weight 3)	lb	35	36	38	54	59	93	104	135	386	915	1047
	vveigili	kg	16	16.5	17.5	24.5	27	42	47	61	175	415	475
	Height H			24	1.6″/625 (	mm		27.6″/	700 mm	29.7"/ 755 mm	42.1"/ 1070 mm	47.6"/1	210 mm
<b>30 to 75 psi/</b> 2 to 5 bar	Actuator				ØD = 6.7	7″/170 m	m · A = 12	2 in²/80 cn	n <sup>2</sup>		$\emptyset$ D = 8.9"/225 mm · A = 25 in <sup>2</sup> /160 cm <sup>2</sup>		
2 10 3 501	Weight 3)	lb	35	36	39	54	60	93	104	135	375	904	1036
	vveignr	kg	16	16.5	17.5	24.5	27	42	47	61	170	410	470
65 to	Height H			24	1.6″/625 ι	mm		27.6″/	700 mm	29.7"/ 755 mm			
<b>145 psi/</b> 4.5 to	Actuator				ØD = 6.7	7"/170 m	m · A = 12	2 in <sup>2</sup> /80 cn	n <sup>2</sup>			On reques	t
10 bar	Weight 3)	lb	35.3	36.3	38.5	54	59.5	92.6	103.6	134.5			
	Weight 3)	kg	16	16.5	1 <i>7</i> .5	24.5	27	42	47	61			

Optionally with actuator 100 in²/640 cm²
Optionally with actuator 50 in²/320 cm²
The weight applies to the version with the material specifications A126B. Add +10 % for all other materials.

# Dimensional drawing of Type 42-25 and Type 42-20 balanced by a diaphragm ·

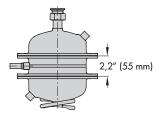
Dimensions and weights (see Table 5)



Type 2422 Valve balanced by a diaphragm with Type 2425/2420 Actuator (Type 2425 in diagram)

1) Type 42-20 only

#### Dimensional drawing of actuator with two diaphragms



Type 42-25 with two diaphragms (special version). Add approx. 2.2"/55 mm to the total height H.

**Table 5:** Dimensions and weights for Type 42-20 and Type 42-25 · Balanced by a diaphragm

			/ 1						
Naminal at	Nominal size		<b>2</b> ½	3	4	6	8	10	
Nominal Size		DN	65	80	100	150	200	250	
and 15	Class 125	inch	10.9	11.75	13.9	17.75	21.4	26.5	
	and 150	mm	276	298	352	451	543	673	
Length L	Cl 200	inch	11.5	12.5	14.5	18.6	22.4	27.9	
	Class 300	mm	292	318	368	473	568	708	
Uniaht U2		inch	3	.1	4.6	6.9	10.2		
Height H2		mm	9	98	118	175	260		

Type 42-20 Diff	erential Pressure I	Regulator							
Height H1 1)		14"/3	55 mm	14.8"/375 mm					
Actuator		ØD = 11.2"	$/285 \text{ mm} \cdot \text{A} = 50$	in <sup>2</sup> /320 cm <sup>2</sup>		_			
Weight, approx		84 lb/38 kg	95 lb/43 kg	113 lb/51 kg					
Type 42-25 Diff	erential Pressure I	Regulator							
	Height H	23.2"/	590 mm	24"/610 mm	33"/840 mm	35.8″/	910 mm		
0.75 to 3.5 psi/	Actuator		ØD	= 15.4"/390 mm	$A = 100 \text{ in}^2/640$	cm <sup>2</sup>			
0.05 to 0.25 bar	Weight, approx. kg	93 lb/42 kg	104 lb/47 kg	121 lb/55 kg	209 lb/95 kg	551 lb/250 kg	595 lb/270 kg		
	Height H	23.2"/-	590 mm	24"/610 mm	33"/840 mm	35.8″/	910 mm		
1.5 to 8.5 psi/	Actuator	ØD = 11.2"/	$285 \text{ mm} \cdot \text{A} = 50$	in²/320 cm² ²)	ØD = 15.4"/	$\emptyset$ D = 15.4"/390 mm · A = 100 in <sup>2</sup> /640 cm <sup>2</sup>			
0.1 to 0.6 bar	Weight, approx. kg	93 lb/42 kg	104 lb/47 kg	121 lb/55 kg	209 lb/95 kg	551 lb/250 kg	595 lb/270 kg		
	Height H	23.2"/	590 mm	24"/610 mm	31.1"/790 mm	33.9"/	360 mm		
3 to 14.5 psi/	Actuator	$\emptyset D = 8.9''/2$	225 mm · A = 25 i	n <sup>2</sup> /160 cm <sup>2 3)</sup>	$^{2}/160 \text{ cm}^{23}$ $\text{ØD} = 11.2''/285 \text{ mm} \cdot \text{A} = 50 \text{ in}^{2}/320 \text{ c}$				
0.2 to 1 bar	Weight, approx. kg	93 lb/42 kg 104 lb/47 kg		121 lb/55 kg	209 lb/95 kg	551 lb/250 kg	595 lb/270 kg		
	Height H	23.2"/-	590 mm	24"/610 mm	31.1"/790 mm 33.9"/860 mm				
7 to 20 psi/	Actuator	$\emptyset$ D = 8.9"/2	225 mm · A = 25 i	n <sup>2</sup> /160 cm <sup>2 3)</sup>	$^{2}/160 \text{ cm}^{2 \text{ 3}}$ $\text{ØD} = 11.2''/285 \text{ mm} \cdot \text{A} = 50 \text{ in}^{2}/32 \text{ mm}$				
0.5 to 1.5 bar	Weight, approx. kg	93 lb/42 kg	104 lb/47 kg	121 lb/55 kg	209 lb/95 kg	551 lb/250 kg	595 lb/270 kg		
	Height H	23.2"/	590 mm	24"/610 mm	31.1"/790 mm	33.9"/	360 mm		
14.5 to 35 psi/	Actuator		ØD	= 8.9"/225 mm ·	$A = 25 \text{ in}^2/160 \text{ cm}^{23}$				
1 to 2.5 bar	Weight, approx. kg	93 lb/42 kg	104 lb/47 kg	121 lb/55 kg	209 lb/95 kg	551 lb/250 kg	595 lb/270 kg		
	Height H	23.2"/	590 mm	24"/610 mm	31.1"/790 mm	33.9"/	360 mm		
30 to 75 psi/	Actuator			ØD = 225 mm	$A = 160 \text{ cm}^{23}$				
2 to 5 bar	Weight, approx. kg	93 lb/42 kg	104 lb/47 kg	121 lb/55 kg	209 lb/95 kg	551 lb/250 kg	595 lb/270 kg		

Type 42-25, all set points
Optionally with actuator 100 in²/640 cm²
Optionally with actuator 50 in²/320 cm²

### Ordering text

Type 42-25 or Type 42-20 Differential Pressure Regulator

NPS/DN ...

Valve balanced by a bellows/diaphragm

Class/PN ...

Body material ...

Set point or set point range ... psi/bar

Accessories ...

Special version