Sarco DEP7 **SG** Iron **Excess Pressure Valve**

TI-P205-01

CH Issue 10

Description

The **DEP7** is an SG iron direct acting bellows sealed excess pressure valve. The standard version has an EPDM diaphragm limited to 125°C and is suitable for steam and water applications. Also available for oil applications is a Nitrile rubber diaphragm (suffix 'N' i.e. DEP7B1N which is limited to 90°C)

Note: To protect the actuator diaphragm on steam applications a WS4 water seal pot must be installed in the downstream pressure signal line to the actuator. Refer to TI-S12-03 for further details.

The products listed below comply with the requirements of the European Pressure Equipment Directive 97/23/EC and carry the 🗲 mark when so required.

Certification

This product is available with a manufacturers' Typical Test Report. Note: All certification/inspection requirements must be stated at the time of order placement.

Available types:

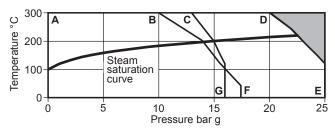
DN15 to **DN50** screwed connections and **DN15** to **DN100** flanged connections.

The **DEP7** is also available in a choice of 6 pressure ranges (suffix 1 - 6):

Upstream pressure ranges:

Range	Value tune	Actuator	Spring	r)	PN		
	Valve type	type	colour	DN15 - DN40	DN50 - DN80	DN100	Rating
1	DEP7B1	11 or 11N	Yellow	0.1 - 0.5	0.1 - 0.3	0.1 - 0.3	2.5
2	DEP7B2	12 or 12N	Yellow	0.2 - 0.8	0.2 - 0.5	0.2 - 0.5	2.5
3	DEP7B3	13 or 13N	Blue	0.5 - 1.7	0.4 - 1.3	0.4 - 1.0	6
4	DEP7B4	14 or 14N	Blue	1.4 - 3.4	1.0 - 2.6	0.8 - 2.5	16
5	DEP7B5	15 or 15N	Blue	3.2 - 7.5	2.3 - 5.5	2.3 - 5.0	25
6	DEP7B6	15 or 15N	Red	7.0 - 16.0	5.0 - 15.0	4.0 - 10.0	25

Pressure / temperature limits



The product **must not** be used in this region.

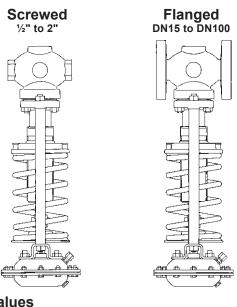
A-D-E Flanged EN 1092 PN25 A-C-G Flanged EN 1092 PN16 A-B-F Flanged ASME 150

Note: In the case of liquid service, this product is to be used only on intermittent duty. Applications such as continuous pump recirculation may cause valve and pipework damage due to cavitation which is not covered under the terms of our warranty.

Body design conditions		PN25
Maximum design pressure	25 bar g @	100°C
Maximum design temperature	300°C @ 17.	5 bar g
Minimum design temperature		0°C
Maximum operating temperature	EPDM diaphragm	125°C
waximum operating temperature	Nitrile diaphragm	90°C
Minimum operating temperature (a Note: For lower operating temp	mbient) eratures consult Spirax	0°C Sarco
Maximum differential pressure	DN15-DN50	25 bar
Maximum differential pressure	DN65-DN100	20 bar
Designed for a maximum cold hyd	draulic test pressure of 38	3 bar g

Note: With internals fitted, test pressure must not exceed 25 bar g

Sizes and pipe connections
1/2", 3/4", 1", 11/4", 11/2" and 2"
Screwed: BSP (BS 21 parallel), NPT also available
DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80 and DN100
Standard flanges: EN 1092 PN16 or PN25
Flanges available on request: ASME 150 and JIS



K_{VS} values

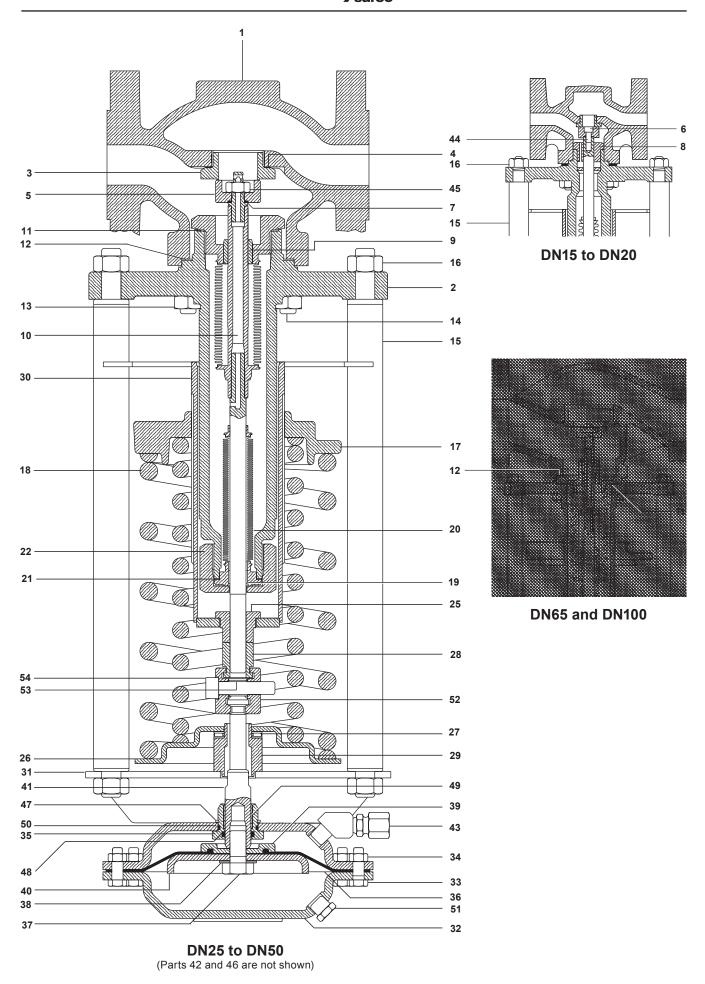
Size DN	15	20	25	32	40	50	65	80	100
Kvs	3.4	6.5	11.4	16.4	24	40	58	92	145

Note: The K_{VS} values shown above are full capacities and should be used for safety valve sizing purposes where they are required.

spirax sarco

	terials		Material			
NO.	Part	DNI4E to DNICO	Material	DINI 4000 000 10 0		
1	Body	DN15 to DN50	SG iron	DIN 1693 GGG 40.3		
2	Bonnet	DN65 to DN100	SG iron	ENG JS 400-18-LT		
2 3	Valve seat		Stainless steel	DIN 1693 GGG 40.3 BS 970 431 S29		
ა 	valve seat	DN15		BS 970 431 328		
4	Value cost goalest	DN20 and DN25	Stainless steel			
4	Valve seat gasket		Mild steel			
_	Valve head	DN32 to DN50	Reinforced exfoliated graphite Stainless steel	DC 070 424 C20		
5		DNI1E and DNI20		BS 970 431 S29		
6 7	Valve head screw Valve head seal	DN15 and DN20	Stainless steel Arlon 1555	BS 6105 A2		
8	Bush	DN25 to DN20	Stainless steel	BS 970 431 S29		
<u> </u>	Bush (part of item 10)	DN25 to DN100	Stainless steel	BS 970 431 S29		
10	Balancing bellows assembly	DN25 to DN100	AISI 316L	B3 970 431 328		
11	Balancing bellows assembly Balancing bellows gasket	DN25 to DN100	Reinforced exfoliated graphite			
12	Bonnet gasket	DIV23 to DIV 100	Reinforced exfoliated graphite			
13	Bonnet nuts		Steel	DIN 267 Pt13 Gr. 8		
13	Domiet nats	DN15 to DN40 M10	Oteei	DIN 207 1 (13 G). 0		
14	Bonnet studs	DN50 and DN65 M12	Steel	DIN 267 Pt13 Gr. 8.8		
14	Bornet studs	DN80 and DN100 M16	Sieei	DIN 207 F(13 G1. 6.6		
15	Pillars	DINOU AND DIN 100 WITO	Zinc plated steel	DC 070 220 M0		
16	Pillars nuts		Zinc plated steel	BS 970 230 M07 BS 3693 Gr. 8		
17	Spring adjuster		Zinc plated steel Zinc plated cast iron	DIN 1691 GG25		
18	Spring adjuster Spring(s)		Chrome vanadium	DIN 1691 GG25		
19	Bush (part of item 20)		PTFE / steel composite			
20	Sealing bellows assembly		Stainless steel	AISI 316L		
	Sealing beliews assembly	DN15 and DN20	Stainless steel 'S' type	AISI STOL		
21	Sealing bellows gasket	DN25 to DN100	Reinforced exfoliated graphite			
22	Clamp nut	DN25 to DN100	Zinc plated steel	BS 970 230 M07		
25	Lock-nut	DN25 to DN 100	Zinc plated steel	BS 970 230 M07		
26			Zinc plated steel	BS 1449 Pt 1 HR14		
27	Spring plate Needle bearing		Steel	B3 1449 Ft 1 HR 14		
28	Setting nut		Zinc plated steel	BS 970 230 M07		
29	Bearing locator		Zinc plated steel	BS 970 230 M07		
30	Adjuster sleeve		Zinc plated steel	BS 970 230 M07		
31	Mounting plate (not shown)		Zinc plated steel	BS 1449 Pt 1 HR14		
31	wounting plate (not shown)	Types 11(N) to 14(N)	Steel	DIN 1514 St W24		
32	Housing	Type 15(N)	Steel	BS EN 10025 S355 J2G3		
		Types 11(N) to 12(N)	Zinc plated steel	BS 3692 Gr. 5.6		
33	Housing screws	Types 13(N), 14(N) and 15(N)	•	BS 3692 Gr. 8.8		
		Types 13(N), 14(N) and 13(N) Types 11(N) to 12(N)	Zinc plated steel Zinc plated steel	BS 3692 Gr. 5.6		
	Housing nuts	Types TT(N) to TZ(N)	Zinc plated steel			
34	riousing nuts	Types 12/NI) 14/NI) and 15/NI)	ZITIC DIALEG SLEET			
		Types 13(N), 14(N) and 15(N)		BS 3692 Gr. 8		
35	Spindle guide	Types 13(N), 14(N) and 15(N)	Stainless steel	BS 970 431 S29		
35 36	Spindle guide Diaphragm	Types 13(N), 14(N) and 15(N)	Stainless steel EPDM fabric reinforced or suffix 'N	BS 970 431 S29 I' Nitrile fabric reinforced		
35 36 37	Spindle guide Diaphragm Hexagon headed bolt	Types 13(N), 14(N) and 15(N)	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel	BS 970 431 S29		
35 36 37 38	Spindle guide Diaphragm Hexagon headed bolt Sealing washer	Types 13(N), 14(N) and 15(N)	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2		
35 36 37 38 39	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp	Types 13(N), 14(N) and 15(N)	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M		
35 36 37 38 39 40	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston	Types 13(N), 14(N) and 15(N)	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14		
35 36 37 38 39 40 41	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle	Types 13(N), 14(N) and 15(N)	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated carbon steel	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07		
35 36 37 38 39 40 41 42	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts	Types 13(N), 14(N) and 15(N)	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated carbon steel Zinc plated steel	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07		
35 36 37 38 39 40 41 42 43	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling		Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated carbon steel Zinc plated steel Zinc plated steel	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07 BS 3692 Gr. 8		
35 36 37 38 39 40 41 42 43 44	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert	DN15 and DN20	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated carbon steel Zinc plated steel Zinc plated steel Stainless steel	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07 BS 3692 Gr. 8		
35 36 37 38 39 40 41 42 43 44	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert Self-locking nut	DN15 and DN20 DN25 to DN100	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated carbon steel Zinc plated steel Zinc plated steel Stainless steel Zinc plated steel Stainless steel Zinc plated steel	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07 BS 3692 Gr. 8 DTD 734 BS 1449 CR4		
35 36 37 38 39 40 41 42 43 44 45 46	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert Self-locking nut Washer	DN15 and DN20	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated carbon steel Zinc plated steel Stainless steel Zinc plated steel Zinc plated steel	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07 BS 3692 Gr. 8 DTD 734 BS 1449 CR4		
35 36 37 38 39 40 41 42 43 44 45 46 47	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert Self-locking nut Washer Circlip	DN15 and DN20 DN25 to DN100	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated carbon steel Zinc plated steel Zinc plated steel Zinc plated steel Zinc plated steel Stainless steel Zinc plated steel	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07 BS 3692 Gr. 8 DTD 734 BS 1449 CR4		
35 36 37 38 39 40 41 42 43 44 45 46 47 48	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert Self-locking nut Washer Circlip Spindle seal 'O' ring	DN15 and DN20 DN25 to DN100	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated carbon steel Zinc plated steel EPDM or suffix 'N' Nitrile	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07 BS 3692 Gr. 8 DTD 734 BS 1449 CR4		
35 36 37 38 39 40 41 42 43 44 45 46 47 48	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert Self-locking nut Washer Circlip Spindle seal 'O' ring Bearing bush	DN15 and DN20 DN25 to DN100	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated steel Stainless steel Zinc plated steel Zinc plated steel EPDM or suffix 'N' Nitrile PTFE / steel composite	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07 BS 3692 Gr. 8 DTD 734 BS 1449 CR4		
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert Self-locking nut Washer Circlip Spindle seal 'O' ring Bearing bush Housing seal 'O' ring	DN15 and DN20 DN25 to DN100	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated steel Stainless steel Zinc plated steel EPDM or suffix 'N' Nitrile EPDM or suffix 'N' Nitrile	BS 970 431 S29 I' Nitrile fabric reinforced BS 6105 A2 ASTM A351 CF8M BS 1449 Pt 1 HR14 BS 970 230 M07 BS 3692 Gr. 8 DTD 734 BS 1449 CR4		
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert Self-locking nut Washer Circlip Spindle seal 'O' ring Bearing bush Housing seal 'O' ring Vent plug	DN15 and DN20 DN25 to DN100	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated steel Stainless steel Zinc plated steel Zinc plated steel Finc plated steel Zinc plated steel Zinc plated steel Zinc plated steel Zinc plated steel EPDM or suffix 'N' Nitrile PTFE / steel composite EPDM or suffix 'N' Nitrile Plastic	BS 970 431 S29 I' Nitrile fabric reinforced		
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert Self-locking nut Washer Circlip Spindle seal 'O' ring Bearing bush Housing seal 'O' ring Vent plug Coupling clamp	DN15 and DN20 DN25 to DN100	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated steel Enc plated steel Zinc plated steel EPDM or suffix 'N' Nitrile PTFE / steel composite EPDM or suffix 'N' Nitrile Plastic Zinc plated steel	BS 970 431 S29 I' Nitrile fabric reinforced		
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Spindle guide Diaphragm Hexagon headed bolt Sealing washer Diaphragm clamp Piston Spindle Mounting nuts Coupling Thread insert Self-locking nut Washer Circlip Spindle seal 'O' ring Bearing bush Housing seal 'O' ring Vent plug	DN15 and DN20 DN25 to DN100	Stainless steel EPDM fabric reinforced or suffix 'N Stainless steel Fibre Stainless steel Zinc plated carbon steel Zinc plated steel Stainless steel Zinc plated steel Zinc plated steel Finc plated steel Zinc plated steel Zinc plated steel Zinc plated steel Zinc plated steel EPDM or suffix 'N' Nitrile PTFE / steel composite EPDM or suffix 'N' Nitrile Plastic	BS 970 431 S29 I' Nitrile fabric reinforced		

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Sizing and selection for steam applications

The sizing chart below can be used to determine the K_V value of the valve for steam applications by plotting:

- Upstream pressure.
- Maximum valve pressure drop.
- Maximum steam load.

Where the K_V value is known, the chart can be used to determine pressure drop across the valve for any given flowrate.

Ky sizing example:

Maximum flowrate 1500 kg/h Upstream pressure 9 bar g (10 abs) Maximum pressure drop 0.5 bar

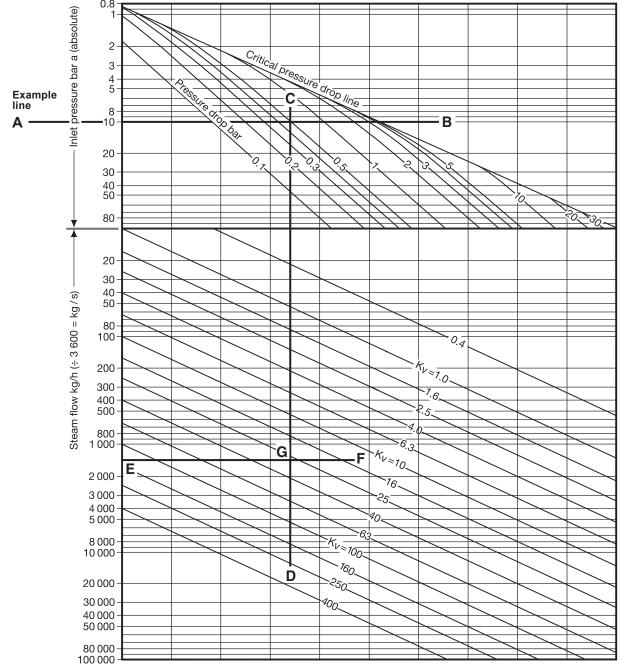
Draw a horizontal line **A - B** at 10 abs.

At intersection with 0.5 pressure drop draw a vertical line C - D.

Draw a vertical line E - F at 1500 kg/h.

At intersection G, read the required $K_V = 28$.

Valve size required DN50 having the next highest K_V of 40.



Note: The sizing chart is empirical and should not be used for critical applications.

Sizing and selection for water applications

The sizing chart below can be used to determine the K_V value of the valve for water applications by plotting:

- Maximum flowrate.
- Maximum valve pressure drop.

Where the K_V value is known, the chart can be used to determine pressure drop across the valve for any given flowrate.

K_V sizing example:

Maximum flowrate 10 m³/h.

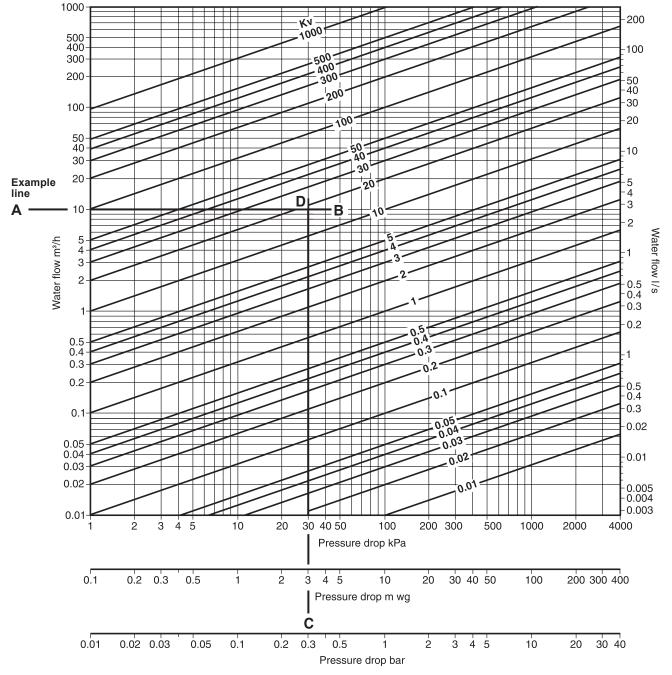
Maximum allowable pressure drop 0.3 bar.

Draw a horizontal line A - B at 10 m³/h.

Draw a vertical line **C** - **D** at 0.3 bar pressure drop.

At intersection **E**, read the required $K_V = 19$.

Valve size required DN40 having the next highest K_V of 24.



Note: The sizing chart is empirical and should not be used for critical applications.



Spare parts for the DN15 and DN20 ($\frac{1}{2}$ " and $\frac{3}{4}$ ") valves
The spare parts available for sizes DN15 and DN20 valves are detailed below. No other parts for these sizes are supplied as spares.

Available spares

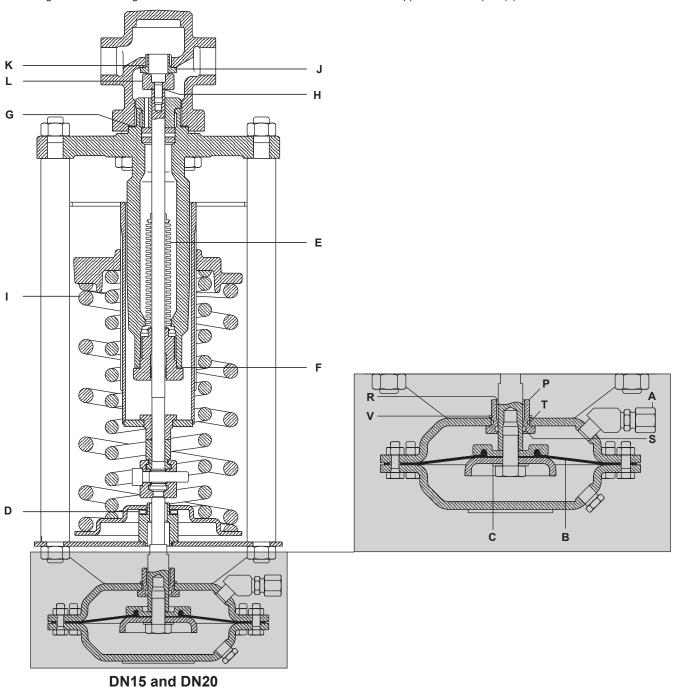
Coupling		Α
Diaphragm set	Diaphragm and sealing washer.	B, C
Needle bearing		D
Sealing bellows set	Sealing bellows assembly, sealing bellows gasket, bonnet gasket and head seal.	E, F, G, H
Control spring(s)		1
Seat/head set	Seat, seat gasket, head, bonnet gasket and head seal.	J, K, L, G, H
Gasket set	Sealing bellows gasket, bonnet gasket and seat gasket.	F, G, K
Actuator spindle guide assembly	Spindle guide, bearing bush, spindle seal 'O' ring, housing seal 'O' ring and circlip.	P, R, S, T, V

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of valve.

Example: 1 - Gasket set for a Spirax Sarco DN15 DEP7B1 express pressure valve.

How to fit sparesFull fitting instructions are given in the Installation and Maintenance Instructions supplied with the spare(s).





Spare parts for the DN25 to DN100 (1" to 2") valves
The spare parts available for sizes DN25 and DN100 valves are detailed below. No other parts for these sizes are supplied as spares.

Available spares

•		
Coupling		A
Diaphragm set	Diaphragm and sealing washer.	В, С
Needle bearing		D
Sealing bellows set	Sealing bellows assembly and sealing bellows gasket	E, F
Control spring(s)		I
Seat/head set DN25 to DN50	Seat, seat gasket, head, self-locking nut, head seal and bonnet gasket.	J, K, L, W, H, G
Head set DN65 to DN100	Head, head seal, self-locking nut, bonnet gasket and balancing bellows gasket.	L, H, W, G, M
Balancing bellows set DN25 to DN50	Balancing bellows assembly, balancing bellows gasket, bonnet gasket, head seal and sealing bellows gasket.	N, M, G, H, F
Balancing bellows set DN65 to DN100	Balancing bellows assembly, balancing bellows gasket, bonnet gasket and head seal.	N, M, G, H
Gasket set DN25 to DN50	Sealing bellows gasket, bonnet gasket, seat gasket and balancing bellows gasket.	F, G, K, M
Gasket set DN65 to DN100	Sealing bellows gasket, bonnet gasket and balancing bellows gasket.	F, G, M
Actuator spindle guide assembly	Spindle guide, bearing bush, spindle seal 'O' ring, housing seal 'O' ring and circlip	. P, R, S, T, V

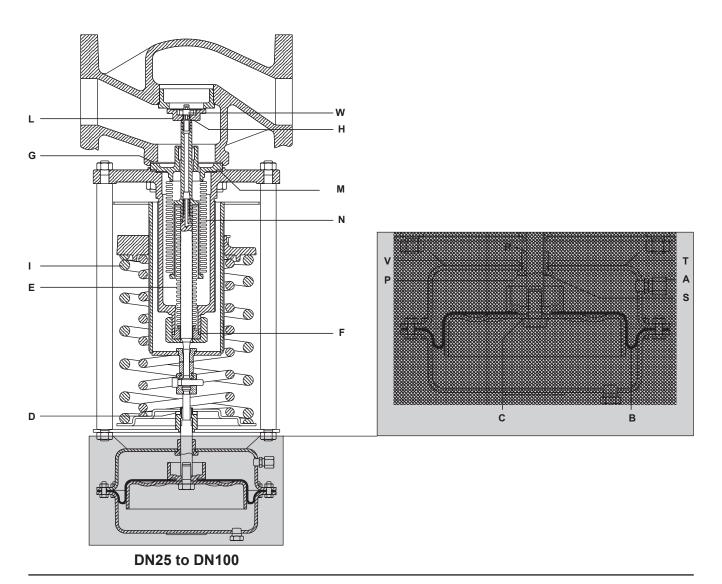
How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of valve.

Example: 1 - Gasket set for a DN25 DEP7B1 excess pressure valve.

How to fit spares

Full fitting instructions are given in the Installation and Maintenance Instructions supplied with the spare(s).

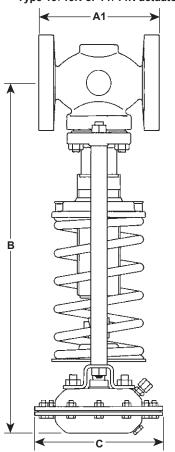


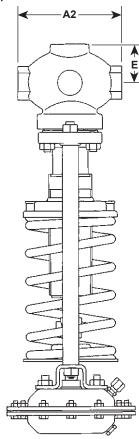
Dimensions (approximate) in millimetres

Size	Flan EN 1092	ged ASME	Scre			Upstream pressure range								
	PN25	150	BSP /	NPI		1	2	2	3			4	5	+ 6
	A1	A1	A2	E	В	С	В	С	В	С	В	С	В	C
DN15	130	127	88	38	553	305	516	250	459	208	459	168	459	143
DN20	150	143	102	38	553	305	516	250	459	208	459	168	459	143
DN25	160	153	134	51	562	305	525	250	468	208	468	168	468	143
DN32	180	176	144	51	632	305	595	250	538	208	538	168	538	143
DN40	200	198	150	62	632	305	595	250	538	208	538	168	538	143
DN50	230	229	180	71	635	305	598	250	541	208	541	168	541	143
DN65	290	295	-	-	635	305	598	250	541	208	541	168	541	143
DN80	310	314	-	-	637	305	600	250	543	208	543	168	543	143
DN100	350	350	-	-	744	305	707	250	650	208	650	168	650	143

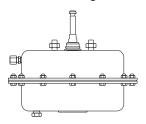
DEP with flanged connections and Type 13/13N or 14/14N actuator

DEP with screwed connections and Type 13/13N or 14/14N actuator

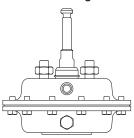




Type 11/11 or 12/12N actuator arrangement



Type 15/15N actuator arrangement



Actuator weight (kg)

Actuator type	11 or	12 or	13 or	14 or	15 or	
	11N	12N	13N	14N	15N	
Weight	12.6	6.5	4.0	2.6	2.7	

Note: To calculate the total product weight add the valve and actuator weights together.

Valve weight (kg)

Valve size		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
	Yellow spring	12.1	12.8	15.7	20.3	22.3	25.5	33.7	38.3	62.3
Weight	Blue spring	12.1	12.8	15.7	20.3	22.3	25.5	33.7	38.3	62.3
	Red spring	13.6	14.3	17.2	21.8	23.8	27.0	35.4	40.0	64.9
Reductio	on for screwed body	-1.7	-2.2	-2.2	-3.6	-3.9	-5.5	-	-	-

Safety information, installation and maintenance

For full details see IM-S12-10 supplied with the product.

Installation note:

Caution: To protect the actuator diaphragm on steam applications a WS4 series water seal pot must be installed in the upstream pressure signal line to the actuator, refer to TI-S12-03 for details.

The valve should be mounted vertically downwards in a horizontal pipeline with the direction of flow as indicated by the arrow on the valve body. For applications with upstream temperatures below 125°C the valve can alternatively be mounted vertically upwards.

How to order

Example: 1 off Spirax Sarco DN40 DEP7B3 direct acting pressure reducing valve having flanged PN25 connections. **Note:** Add suffix 'N' if the Nitrile rubber diaphragm is required. i.e. DEP7B3N.