

→ Series 630



■ MATERIAL



■ SPECIFICATION



1/2" – 2"



– 10°C to + 95°C



0,5 – 10 bar

■ SUITABLE FOR

Liquids	neutral and non-neutral	
Air, gases and vapours	neutral and non-neutral	

■ EXAMPLES OF USE

For the protection of:

- pumps against overloading in closed circuits for neutral / non-neutral, non-sticking liquids

For the control of:

- systems under pressure for air, neutral / non-neutral gases and vapours

- test rig construction
- process equipment construction
- de-icing technology
- mechanical engineering
- industrial applications

■ APPROVALS

European Pressure Equipment Directive

TR ZU 032/2013 - TR ZU 010/2011

Requirements

PED 2014/68/EU

Classification society

Germanischer Lloyd	GL
Lloyd's Register EMEA	LR EMEA
American Bureau of Shipping	ABS
Bureau Veritas	BV
Russian Maritime Register of Shipping	RS

■ MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Gunmetal	CC499K	CC499K
	Brass	CW617N	CW617N
Valve seat	Stainless steel	1.4404	316 L
Spring	Spring steel with anti-rust protection	1.1200	ASTM A228

■ VALVE VERSION

m	with diaphragm	High-quality, heat-resistant moulded elastomere, fabric-reinforced diaphragm. Valves in straightway form, closed version. Can be adjusted under operating conditions without medium escaping into the atmosphere. Adjustment can be directly read-off an optional pressure gauge (accessory). Optimal control response and large flow volumes even in cases of small pressure differences due to diaphragm operating principle.
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Complete valve cartridge available as replacement part (order code: 630 cartridge-DN..-seal) can be exchanged without removing the valve.

Valves can be delivered unset within a pressure range or set and sealed at the factory (against surcharge).

■ MEDIUM

GF	gaseous and liquid	for water, neutral and non-sticking liquids, compressed air and neutral gases; optionally with FPM elastomere seals for non-neutral media i.e. oils, fuels, oil-laden compressed air, etc.
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■ TYPE OF LIFTING MECHANISM

0	without lifting device
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■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN	15	20	25	32	40	50
Inlet	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)	1 1/2" (40)	2" (50)
Outlet	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)	1 1/2" (40)	2" (50)

■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

BSP-Tm / BSP-Tm	Standard threaded connections	Male thread BSP-T / Male thread BSP-T	DIN EN 10226, ISO 7-1 / DIN EN 10226, ISO 7-1
f / f	Version with female thread available in sizes DN15, DN20 and DN25	Female thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1

■ SEALS

EPDM	Ethylene propylene diene	Elastomere moulded diaphragm and seals approvals according to drinking water directive	-10°C to +95°C
Against surcharge			
FKM	Fluorocarbon	Elastomere moulded diaphragm and seals	-10°C to +95°C

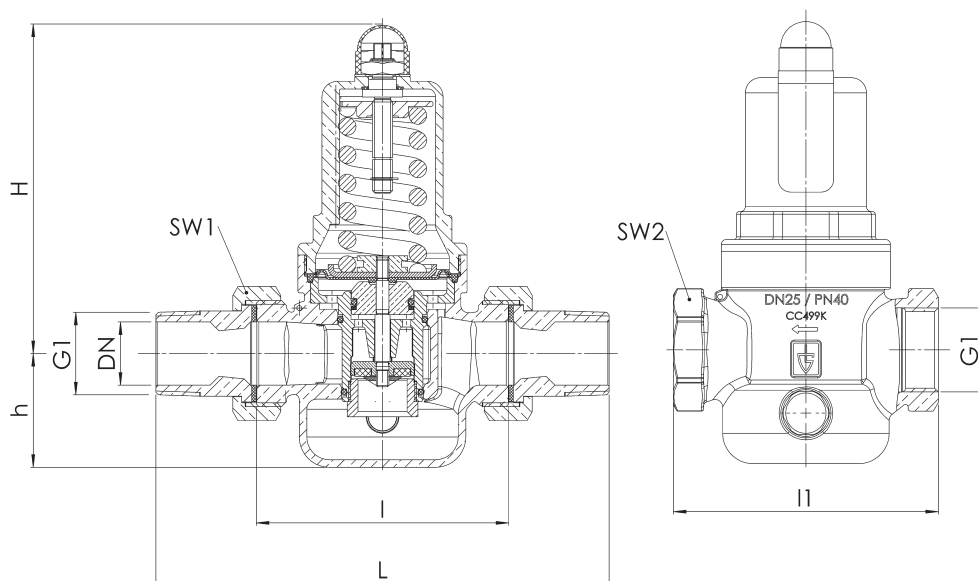
■ OPTIONS

Against surcharge	
Pressure gauges 36, 39 or 40	Chapter Accessories

NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 630: Connection, installation dimensions, ranges of adjustment							
Nominal diameter	DN	15	20	25	32	40	50
Inlet DIN EN 10226	G1	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)	1 1/2" (40)	2" (50)
Outlet DIN EN 10226	G1	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)	1 1/2" (40)	2" (50)
Installation dimensions in mm	L	142	158	180	193	226	252
	I	80	90	100	105	130	140
	I1	85	95	105			
	H	102	102	130	130	165	165
	h	33	33	45	45	70	70
	SW1	30	37	46	52	65	75
	SW2	28	35	43	48	57	68
Weight	kg	1,2	1,4	2,4	2,6	5,5	6
Set pressure	bar	0,5-10	0,5-10	0,5-10	0,5-10	0,5-10	0,5-10
Range of adjustment	bar	0,5-2	0,5-2	0,5-2	0,5-2	0,5-2	0,5-2
		1,5-6	1,5-6	1,5-6	1,5-6	1,5-6	1,5-6
		5,5-10	5,5-10	5,5-10	5,5-10	5,5-10	5,5-10

MAIN DIMENSIONS, INSTALLATION DIMENSIONS



INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Nominal diameter DN	Connection type		Connection size		Seal	Options	Pressure range / set pressure	Quantity
					Inlet	Outlet	Inlet	Outlet				
630	m	GF	0	25	BSP-T m	BSP-T m	25	25	FKM		7,0	1
630	m	GF	0	20	f	f	20	20	EPDM		5,5 - 10	2
630	m	GF	0									
630	m	GF	0									

In this table you can configure a valve according to your individual requirements (similar to the [example](#) shown, which should be deleted before you enter your own data). Please complete the table by hand using the abbreviations in this datasheet and then fax it to: +49(0)7141.4889488
Please do not forget to add your personal data so that our sales team can contact you.

Name _____

First Name _____

Company _____

Telephone _____

E-Mail _____

■ CAPACITY TABLE

Series 630: Kv values at 1 bar overpressure																		
Nominal diameter DN	15			20			25			32			40			50		
	Air [Nm³/h]			Air [Nm³/h]			Air [Nm³/h]			Air [Nm³/h]			Air [Nm³/h]					
Pressure range bar	0,5-2	5,5-10		1,5-6			0,5-2	5,5-10		1,5-6			0,5-2	5,5-10		1,5-6		
Set pressure bar		1,5-6		0,5-2		5,5-10		1,5-6		0,5-2		5,5-10		1,5-6		0,5-2		5,5-10
0,5	73			77			189			193			417			445		
1	89			94			231			239			498			537		
1,5	102	103		108	107		264	185		273	196		587	370		624	408	
2	117	119		121	126		303	226		314	238		636	429		683	472	
3		146			153			282			291			506			557	
4		170			176			330			338			543			615	
5		187			194			367			379			625			684	
5,5		195	139		206	157		386	183		394	186		653	375		719	417
6		203	147		216	163		405	194		418	202		708	395		760	443
7			162			178			223			229			400			502
8			179			190			259			264			407			517
9			218			225			285			289			432			564
10			255			261			303			314			465			601

Kv values at 1 bar overpressure																							
Nominal diameter DN	15			20			25			32			40			50							
	Water [m³/h]			Water [m³/h]			Water [m³/h]			Water [m³/h]			Water [m³/h]			Water [m³/h]							
Pressure range bar	0,5-2		5,5-10		1,5-6		0,5-2		5,5-10		0,5-2		1,5-6		0,5-2		5,5-10		0,5-2		1,5-6		5,5-10
Set pressure bar		1,5-6			0,5-2		5,5-10				1,5-6			0,5-2		5,5-10				1,5-6		5,5-10	
0,5	2,7				2,9			5,5					6,2				12,4				12,9		
1	2,9				3,3			6,1					6,9				12,9				13,8		
1,5	3,4	3,1			3,6	3,4		6,6	5,6		7,5	6,4		13,2	9,0					14,4	9,4		
2	3,6	3,2			3,9	3,4		6,9	5,7		7,8	6,4			13,5	9,1				14,9	9,4		
3		3,3				3,5			5,9			6,5				9,3					9,5		
4		3,4				3,7			6,1			7,2				9,5					9,9		
5		3,3				3,7			6,2			7,5				9,7					10,2		
5,5		3,0	2,3			3,6	2,7		5,8	3,2		6,9	4,1		10,1	7,2					10,5	7,7	
6		2,9	2,4			3,6	2,7		5,4	3,3		6,7	4,2		10,4	7,3					10,9	8,0	
7			2,4				2,6			3,9			4,5			7,5						8,1	
8			2,4				2,6			3,8			4,4			7,3						7,8	
9			2,3				2,5			3,7			4,2			6,9						7,4	
10			2,2				2,5			3,6			4,0			6,5						7,1	