Low flow valve 7342

DN8, DN15; PN320

Valve for small and very small flow rates with electric actuator for shutting off and controlling liquids and gases for industrial applications

- High control precision, small dead band
- Short response times
- Small and very small Kvs values
- High differential pressures up to 320 bar
- Metal sealing seat assembly made out of stainless steel or hard metal
- Metal body seal
- Actuators for open/close or control operation
- Optional with safety position

Technical data valve

Nominal Size	DN8, DN15	
Connection	Pipe thread acc. ISO 228-1 NPT thread acc. ANSI B1.20.1 Socket Weld	
Nominal pressure	PN 320	
Fluid temperature	Standard version HT530-version Low-temperature version 1 Low-temperature version 2	-20°C up to +210°C -20°C up to +530°C -40°C up to +160°C -100°C up to +210°C
Leakage	EN 60534-4 EN 12266-1	IV F

Technical data actuator

Driving force	2,0 kN
Power connections	24 V AC/DC 100 - 240 V 50/60Hz
Ambient temperature	Standard: -10°C up to +60°C Low temperature version: -40°C up to +60°C
Storage Temperature	Standard: -30°C up to +80°C (+60°C with Fail-Safe protection) Low temperature version: -40°C up to +80°C (+60°C with Fail-Safe protection)
Mounting position	choice horizontal or vertical actuator only
Protection class (EN 60529)	IP 67
Max. power consumption at 24V AC/DC-operation:	40 Watt
Nominal power consumption during mains operation	Mains voltage 230V: P=40W S=67,8VA I=295mA cosφ=0.59 Mains voltage 115V: P=40W S=58,8VA I=511mA cosφ=0.68
Dead band	±0,2% at min. 6mm stroke
Repeat accuracy	±0,1% at min. 6mm stroke
Stroking speed	0,75 s/mm up to 250 s/mm (standard 1,5 s/mm)
Stroking speed of the Fail-Safe protection	0,75 s/mm up to 4 s/mm
Set point range	adjustable 0(4) - 20 mA, 0(2) - 10 V optional binary input signal (24V DC)
Feed back	adjustable 0(4) - 20 mA, 0(2) - 10 V
cycles (Fail-Safe)	500000
life-time (Fail-Safe)	10 years
duty cycle	100%
Self Monitoring	monitoring of the driving power, set point, actuator temperature, temperatrure of the electronic etc.
Diagnostic function	storage of motor and total service life, temperature- and way classes
Valve adaptation	automatic stroke adjustment to suit valve limits
additional inputs	binary input
additonal outputs	2 alarm outputs
Electrical connection	Power supply M20x1.5 (optional NPT 1/2“) Signal/position feedback 2x M16x1.5

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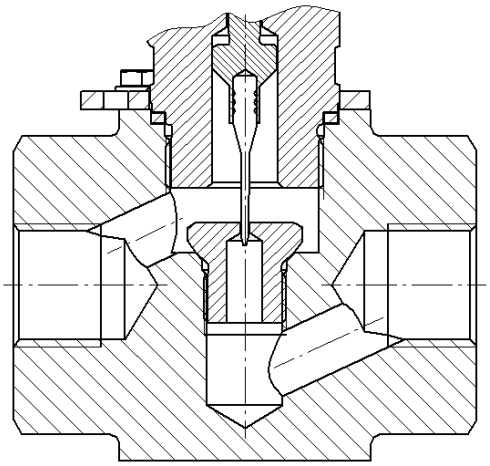
Low flow valve 7342

Materials

Body	1.4404	
Head section	1.4404	
Head section seal	1.4404	
Actuating stem	1.4571	
Packing	PTFE and PEEK Compound	
Needle	1.4404	Hardmetal
Seat	1.4404	Hardmetal
Body actuator	Aluminium painted/KTL coated	

KVS-values

Characteristic: linear			
DN8		DN15	
KVS	rangeability	KVS	rangeability
0,17	30:1	1,3	40:1
0,11	30:1	1,0	40:1
0,068	30:1	0,68	40:1
0,043	30:1	0,43	40:1
0,027	30:1	0,27	30:1
0,017	30:1	0,17	30:1
0,011	25:1	0,11	30:1
0,007	25:1	0,068	30:1
0,004	25:1	0,043	30:1
0,003	25:1	0,027	30:1
		0,017	30:1
		0,011	25:1
		0,007	25:1
		0,004	25:1
		0,003	25:1



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Admissible pressures

DN08 - p1 as a function of p2

	KVS values	Seat relief	p2 [bar] 0	20	50	100	150	200	250	300	320
p1 [bar]	0,043-0,17	275 N	177	169	159	140					
		520 N	320	320	320	320	320	320	320	320	320
	0,0027-0,027	275 N	320	320	320	303					
		175 N	295	206	73						

DN15 - p1 as a function of p2

	KVS values	Seat relief	p2 [bar] 0	20	50	100	150	200	250	300	320
p1 [bar]	1,0 - 1,3	1540 N	233	233	233	233	233	233			
		925 N	130	130	130	130					
	0,27 - 0,68	925 N	320	319	313	302	292	281	271		
		520 N	158	154	148	137					
	0,043 - 0,17	520 N	320	320	320	218					
		275 N	177	129	59						
	0,0027 - 0,027	275 N	320	320	126						
		175 N	295	46							

Operating limits

Material trim Needle	Material trim Seat	Temperature	max. differential pressure [bar] Liquid	Gas
1.4404	1.4404	T ≤ 100°C	100	320
		T > 100°C	40	160
Hardmetal	Hardmetal	-	200	320

Pressure-temperature rating

Standard version T [°C]	Standard version PS [bar]	HT530-version T [°C]	HT530-version PS [bar]
-60 bis +120	320	250	254
150	301	300	238
200	274	400	226
210	270	450	216
		500	206
		530	200

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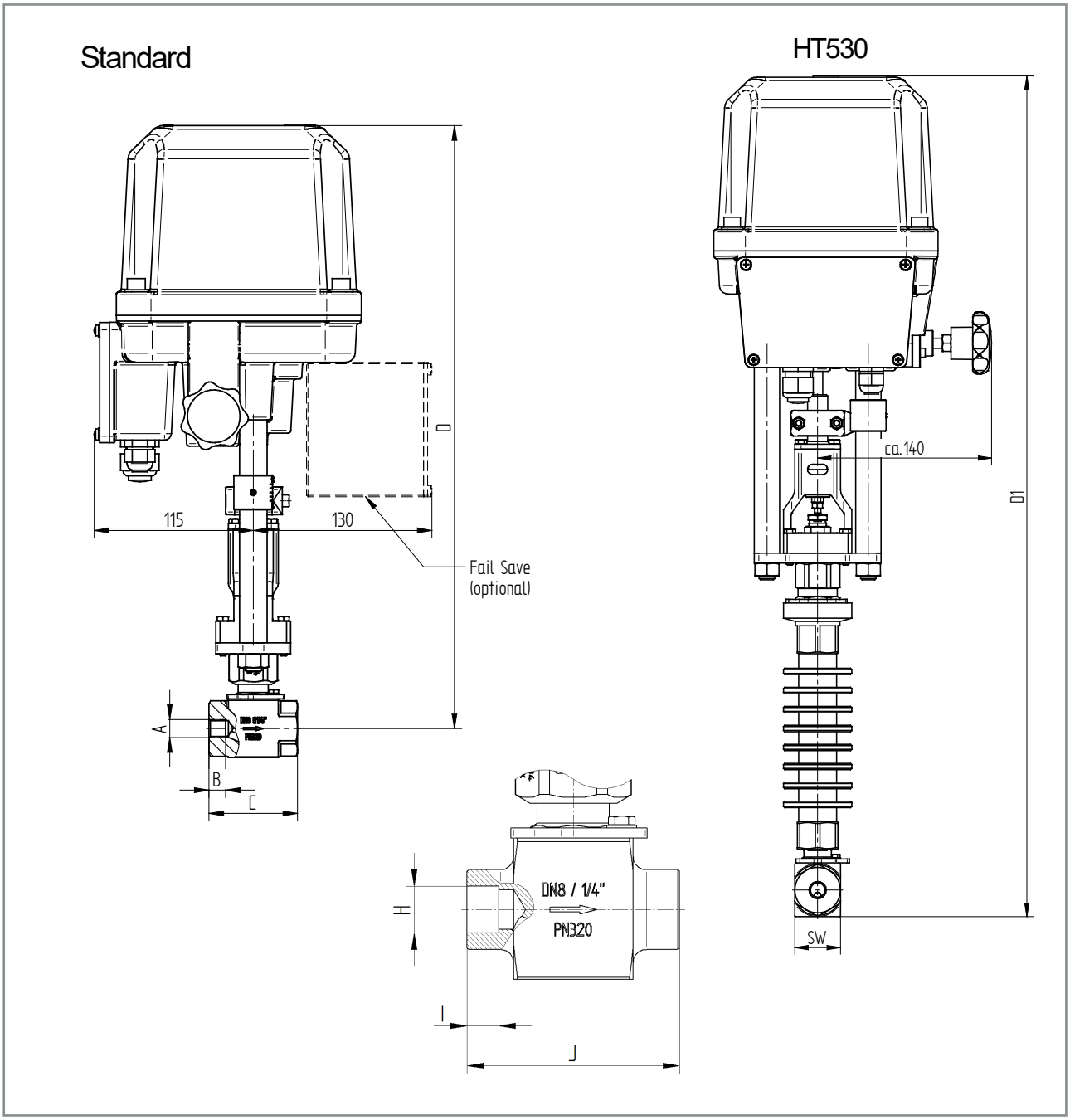
Dimensions and weights



Nominal Size	G-thread connection		NPT-thread connection		C	Standard version			HT530 version			Stroke
	A	B	A	B		D	Weight [kg] without Fail-Save	Weight [kg] with Fail-Save	D1	Weight [kg] without Fail-Save	Weight [kg] with Fail-Save	
DN08	G 1/4“	12	NPT 1/4“	10	64	436	10,1	11,9	660	11,7	13,5	12
DN15	G 1/2“	15	NPT 1/2“	14	79	443	10,7	12,5	648	12,4	14,6	12

Dimensions in mm

Size	Socket weld connection		J
	H	I	
DN08	14	9,53	64
DN15	21,7	12,7	79

Dimensions in mm

Text and pictures are not binding. We reserve the right, to alter the equipment.