

## 2/2-WAY PRESSURE OPERATED VALVE, DIRECT FORCE OPERATED

**Description:**

- 2/2-way pressure operated seat valve
- seat valve with plunger washer
- direct force operated
- body in brass, red brass or stainless steel design
- female thread ISO228
- optional installation position

**Application area:**

- viscosity 600mm<sup>2</sup>/s
- medium temperature -40°C to +200°C
- ambient temperature -10°C to +60°C
- operating pressure 0 to 25bar (see chart)
- control pressure 4 to 10 bar
- for hot and cold water, oil and air, in stainless steel design also for aggressive media
- control medium air and neutral liquids

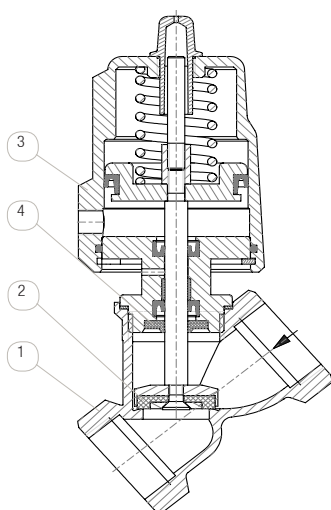
**Explanation:**

During the installation please pay attention to the **flow pattern** (marking with arrow on the body). Optional flow pattern with optional available double-acting piston drive. Other sealings, operating pressures and bodies of the control cylinder on request. As special valve also available with integrated positioner.

**With aluminium cylinders (Type „xxZ“) water must not be used as control medium.**

**Thread ISO 228:** the norm describes the thread connection of a parallel male thread with a parallel female thread and is marked with „G“.

**Attention!** Threads for red brass cases in 1/2" and 3/4" differ according to DIN EN 10226 (Rp)



Pos.	Component	Brass		Stainless steel		Optional material	
1	Body	Brass	A	Stainless steel	O		
		Red brass	B				
2	Seat sealing	PTFE	T	PTFE	T	NBR*	B
						FKM	V
3	Cylinder	30/50: Brass	A	50: Nickel-plated brass	E	EPDM	E
				80/125: Aluminium	Z	Stainless steel	O
4	Spindle sealing	NBR	B	PTFE	T	NBR*	B
		PTFE	T			FKM*	V
						EPDM	E

\*differing medium temperature for optional sealings:

- NBR upto max. 80°C
- FKM upto max.

**Wear parts:**

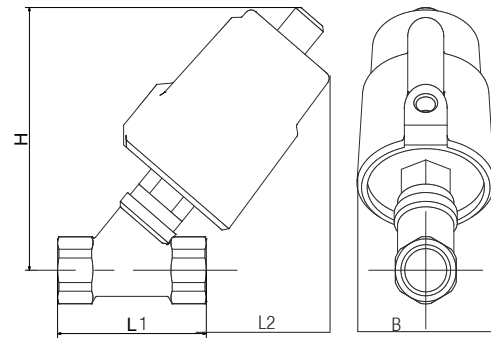
- 3.2 Spindle
- 3.4 Valve disc
- 3.5 Disc
- 3.6 Seat sealing
- 3.13 Driving band
- 3.14 V-set of collars
- 3.15 Countersunk screw
- 3.16 Lip seal
- 3.17 Lip seal
- 3.18 O-ring
- 3.21 Flat gasket
- 3.22 Spring
- 3.23 Wiper

**Options:**

- PV: Pilot valve GMV3197
- OF: Free of oil and grease
- DW: Double-acting actuator
- PS: Optional position indication (NO and double-acting)
- PS: Electrical position indication (limit switch)
- PS: 2 inductive limit switches in the transparent box
- HA: Manual override
- VU: Vacuum design with soft sealing
- VD: Vacuum design, also for pressure
- AS: Welding ends
- MV: Milk pipe connection

You find information about the appointment code under „Appointment details“. An overview of the complete material code is in the catalog at the beginning of the chapter of the respective product group.

## 2/2-WAY PRESSURE OPERATED VALVE, DIRECT FORCE OPERATED

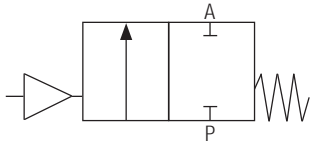


Matchcode	Size			Operating pressure*						Measures [mm]				Weight [kg]	Kv-Value*** [m³/h]	
				closing with medium			closing against medium									
	Con- nection [inch]	No- minal size [mm]	Control cylinder [mm]	NC			NO		NC							
				Type	Pres- sure [bar]	Back pres- sure [bar]	Type	Pres- sure [bar]	Type	Pressure [bar]						
L1	L2	H	B													
<b>Body red brass</b>																
DSB6300-04BxT-120-xxx	1/2**	12	50	12A	0-16	9	42A	0-16	32A	0-16	66	135	130	62	1,2	4,6
DSB6300-05BxT-160-xxx	3/4**	16	50	12A	0-16	6	42A	0-16	32A	0-16	75	140	130	62	1,3	6,4
DSB6300-06BxT-230-xxx	1	23	50	12A	0-16	2,5	42A	0-16	32A	0-10	80	145	135	62	1,5	8,4
DSB6300-07BxT-290-xxx	1 1/4	29	50	12A	0,10	0,4	42A	0,9	32A	0,7	97	150	140	62	1,8	21,5
DSB6300-07BxT-290-xxx	1 1/4	29	80	14Z	0-16	1	44Z	0-16	34Z	0-12	97	195	186	94	3,2	21,5
DSB6300-08BxT-350-xxx	1 1/2	35	50	12A	0-8	0,3	42A	0-7	32A	0-6	107	155	148	62	2,4	27,0
DSB6300-08BxT-350-xxx	1 1/2	35	80	14Z	0-16	0,5	44Z	0-16	34Z	0-8	107	205	192	94	3,4	27,0
DSB6300-09BxT-430-xxx	2	43	50	12A	0-4	0,2	42A	0-4	32A	0-3	124	160	155	62	3,5	45,0
DSB6300-09BxT-430-xxx	2	43	80	14Z	0-16	0,3	44Z	0-11	34Z	0-5	124	215	200	94	4,5	45,0
DSB6300-09BxT-430-xxx	2	43	125	15Z	0-16	1,4	45Z	0-16	35Z	0-16	124	260	265	140	6	45,0
<b>Body brass</b>																
DSB6300-10ABT-630-xxx	2 1/2	63	80	14Z	0-6	-	44Z	0-6	-	-	178	250	215	94	5,5	82
DSB6300-10ABT-630-xxx	2 1/2	63	125	15Z	0-10	0,5	45Z	0-10	35Z	0-9	178	327	270	140	7,6	82
DSB6300-11ABT-760-xxx	3	76	80	14Z	0-4	-	44Z	0-4	-	-	195	290	230	94	8	125
DSB6300-11ABT-760-xxx	3	76	125	15Z	0-10	0,5	45Z	0-10	35Z	0-5	195	345	290	140	10,1	125
<b>Body stainless steel</b>																
DSB6300-040TT-130-xxx	1/2	13	50	12E	0-25	9	42A	0-25	32E	0-25	65	140	140	62	1,3	4,6
DSB6300-050TT-180-xxx	3/4	18	50	12E	0-20	6	42A	0-20	32E	0-20	75	145	140	62	1,4	6,4
DSB6300-060TT-240-xxx	1	24	50	12E	0-16	2,5	42A	0-16	32E	0-10	90	150	145	62	1,6	12,0
DSB6300-070TT-310-xxx	1 1/4	31	50	12E	0-9	0,4	42A	0-9	32E	0-7	110	155	148	62	2,2	21,5
DSB6300-070TT-310-xxx	1 1/4	31	80	14Z	0-25	1,8	44Z	0-25	34Z	0-10	110	200	190	94	3,2	21,5
DSB6300-080TT-350-xxx	1 1/2	35	50	12E	0-7	0,3	42A	0-7	32E	0-6	120	160	155	62	2,5	27,0
DSB6300-080TT-350-xxx	1 1/2	35	80	14Z	0-20	0,5	44Z	0-20	34Z	0-8	120	210	195	94	3,4	27,0
DSB6300-090TT-450-xxx	2	45	50	12E	0-4	0,2	42A	0-4	32E	0-3	150	175	162	62	3,5	46,0
DSB6300-090TT-450-xxx	2	45	80	14Z	0-12	0,3	44Z	0-12	34Z	0-5	150	230	205	94	4,6	46,0
DSB6300-090TT-450-xxx	2	45	125	15Z	0-20	1,4	45Z	0-20	35Z	0-20	150	275	260	140	6,4	46,0

\* declared is the maximal pressure range at a control pressure of 6bar

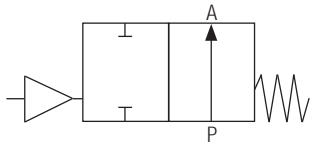
\*\* differing thread DIN EN 10226 (Rp)

\*\*\* KV-Value: The nominal flow of KV to VDI/VDE 2173 indicates the water amount in cubic metres per hour, at 100% opened armature,  $\Delta p=1$  bar and at a water temperature from 5 to 30°C.

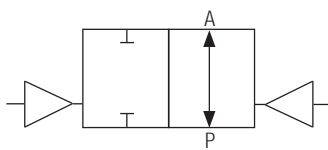
**Functions:****closed in rest position (NC):**

**Type1xx:** closing with the medium, single-acting.  
With liquids there can occur closing and opening strokes.

**Type3xx:** closing against the medium, single-acting.  
With liquids prevention of closing and opening strokes.

**opened in rest position (NO):**

**Type4xx:** closing against the medium, single-acting

**optional flow pattern:**

**Type5xx/Type6xx:** for optional flow pattern

**Optional available:**

The GMV3197 as 3/2-way-pilot valve, direct force operated, for control of the compressed air cylinder. If necessary for big nominal sizes we advise the GMV3164 for faster closing times.



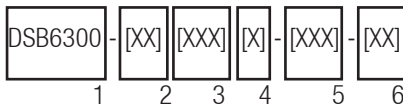
You find detailed information in the product group „Solenoid valve“.

**Special option with integrated positioner**

For the DSB6300 there is an integrated positioner available. Main features:

- Input signal range: 0/4-20mA, 0-10V
- Output signal range: always meets the input signal
- Auxiliary power electrical: 24V DC, max. 10W
- Hysteresis: <0,5%
- Adjustment (hub, zero point): mechanically
- Protection class DIN 40050: IP67

Please request this option.

**Appointment details:**

**1: Basistype: DSB6300**

**2: Connection size: 02-11 (see chart)**

**3: Material:**

- 1. Body material  
A=Brass  
B=Red brass  
O=Stainless steel
- 2. Spindle sealing and  
3. Seat sealing  
B=NBR  
E=EPDM  
T=PTFE  
V=FKM

**4. Nominal size in 1/10mm (s. chart)**

Demands on your application conditions that are not listed on the data sheet, can be requested!

The guide book and the maintenance guidelines, particularly the given safety instructions have to be paid attention to before the installation!

**5: Type of the pressure cylinder (other types on request):**

- 1. Information about the function  
1=closing with medium, NC, single-acting  
3=closing against medium, NC, single-acting  
4=closing against medium, NO, single-acting
- 2. Information about the cylinder diameter:  
1: Ø30  
2: Ø50  
5: Ø125
- 3. Material of the cylinder  
A=Brass (blank)  
E=Nickel-plated brass  
O=Stainless steel

**6: Options (see „Options“)**