

2/2-way valve BC-63

Externally controlled (optional with manual operation = HA)

Description

Valve normally closed by spring power and medium pressure. When the actuator is pressurised, it lifts the piston and simultaneously the valve head - the valve opens.

Valves of this type are also available with the function open by spring force.

In addition, a double acting actuator is available, which enables any flow direction



Specifications

Construction: Poppet design
 Type of control: Externally pressure controlled, direct controlled
 Connection: G 1/4 - G 3, DIN ISO 228
 * 1/2 + 3/4 red brass
 Nominal diameter: DN 10 - 76
 Operating Pressure: 0 - 40 bar
 Media: Neutral, gaseous and liquid media - respectively, the stainless steel version can handle more aggressive media

Medium temp.: NBR -10 up to +80°C
 Ambient temp.: Max. +60°C
 Body materials: Brass PN 10 / red brass Rg5
 PN 16 / stainless steel PN 40
 Metallic internals: Brass und stainless steel 1.4301
 Seat seal: PTFE
 Spindle seal: NBR, PTFE (brass, red brass, stainless steel)
 Viscosity: 600 mm²/S
 Installation: Any position
 Controlling pressure: 6 to 10 bar
 Controlling media: Air, neutral liquids

G	Orifice ømm	Flow rate m ³ /h	Standard-Type PN 16	max. pressure range with 6 bar working pressure value in () = back pressure stability										
				7003	7105	7108	7113	7115	7158	7163	8105	8108	8113	
1/4	4	0,35	A6345/1001/...	0-16	-	-	-	-	-	-	-	-	-	-
1/4	6	0,75	A6347/1001/...	0-16	-	-	-	-	-	-	-	-	-	-
3/8	4	0,35	A6355/1001/...	0-16	-	-	-	-	-	-	-	-	-	-
3/8	6	0,75	A6357/1001/...	0-16	-	-	-	-	-	-	-	-	-	-
3/8	8	1,3	A6358/1001/...	0-16	-	-	-	-	-	-	-	-	-	-
1/2	8	1,4	A6368/1001/...	0-16	-	-	-	-	-	-	-	-	-	-
1/2	10	1,7	A6369/1001/...	0-16	-	-	-	-	-	-	-	-	-	-
1/4	13	1,6	A6321/1001/...	0-10	-	-	-	-	-	-	-	-	-	-
3/8	13	3,3	A6322/1001/...	0-10	-	-	-	-	-	-	-	-	-	-
1/2	13	4,6	A6323/1001/...	0-10	-	-	-	-	-	-	-	-	-	-
*1/2	12	4,6	A6323/1101/...	-	0-16(9)	-	-	0-16	-	-	0-16	-	-	-
*3/4	16	9,4	A6324/1101/...	-	0-16(9)	0-16	-	0-16	0-16	-	0-16	-	-	-
1	23	17,4	A6325/1101/...	-	0-16(2,5)	0-16	-	0-10	0-16	-	0-16	-	-	-
5/4	29	21,5	A6326/1101/...	-	0-10(0,4)	0-16(1)	-	0-7	0-12	0-16	0-9	0-16	-	-
6/4	35	26,4	A6327/1101/...	-	0-8(0,3)	0-16(0,5)	-	0-6	0-8	0-16	0-7	0-16	-	-
2	43	47,5	A6328/1101/...	-	0-4(0,2)	0-16(0,3)	0-16(1,4)	0-3	0-5	0-16	0-4	0-11	0-16	-
2 1/2	63	82,0	A6329/1001/...	-	-	0-6	0-10(0,5)	-	0-1	0-9	-	0-6	0-10	-
3	76	125,0	A6330/1001/...	-	-	0-4	0-10(0,5)	-	-	0-5	-	0-4	0-10	-

Stainless steel			PN 40	7503	7505	7108	7113	7515	7158	7163	8505	8108	8113
1/2	13	4,6	A6323/0804/...	-	0-25(9)	-	-	0-40	-	-	0-25	-	-
3/4	18	9,4	A6324/0804/...	-	0-20(6)	-	-	0-20	0-25	0-40	0-20	-	-
1	24	17,4	A6325/0804/...	-	0-16(2,5)	0-40(1)	-	0-10	0-22	0-40	0-16	-	-
5/4	31	21,5	A6326/0804/...	-	0-9(0,4)	0-25(1,8)	-	0-7	0-10	0-40	0-9	0-25	-
6/4	35	26,4	A6327/0804/...	-	0-7(0,3)	0-20(0,5)	-	0-6	0-8	0-30	0-7	0-20	-
2	45	47,5	A6328/0804/...	-	0-4(0,2)	0-12(0,3)	0-20(1,4)	0-3	0-5	0-20	0-4	0-12	0-20

Functions

Actuator 7115, 7158, 7163
closing against flow direction
in rest-position closed - NC

(Anti-waterhammer design)

Actuator 8105, 8108, 8113
closing against flow direction
in rest-position open - NO.

Dimensional drawing of standard type

Funktionen-Functions

Actuator 7105, 7108, 7113
Closing with flow direction in rest-position
closed - NC.

(Consider waterhammer when
controlling liquids
with high flow speed)

Actuator 9105, 9108, 9113
Double acting function for any flow
direction.

Actuator	7105						7108						7113		
	6323	6324	6325	6326	6327	6328	6326	6327	6328	6329	6330	6328	6329	6330	
Type	1/2	3/4	1	5/4	6/4	2	5/4	6/4	2	2 1/4	3	2	2 1/4	3	
A(1)	135	140	145	150	155	160	195	205	215	250	290	260	327	345	
A(2)	140	145	150	155	160	175	200	210	230	-	-	275	-	-	
D	62	62	62	62	62	62	94	94	94	94	94	140	140	140	
K(1)	132	130	135	140	148	155	186	192	200	215	230	265	270	290	
K(2)	140	140	145	148	155	162	190	195	205	-	-	260	-	-	
L(1)	66	75	80	97	107	124	97	107	124	178	195	124	178	195	
L(2)	65	75	90	110	120	150	110	120	150	-	-	150	-	-	
SW(1)	27	33	41	50	56	68	50	56	68	85	98	68	85	98	
SW(2)	27	32	42	50	55	70	50	55	70	-	-	70	-	-	
T(1)	8	9	10,5	12,5	14,5	16,5	12,5	14,5	16,5	28	28	16,5	28	28	
T(2)	12	13	15	17	19	21	17	19	21	-	-	21	-	-	
kg(1)	1,2	1,3	1,5	1,8	2,4	3,5	3,0	3,4	4,5	5,5	8,0	5,0	7,6	10,1	
kg(2)	1,3	1,4	1,6	2,2	2,5	3,5	3,2	3,4	4,6	-	-	6,4	-	-	

All technical specifications are without obligation!
 Index(1): Data for standard type in red brass
 Index(2): Data for standard type in stainless steel

Steuerzylinder Cylinder	Ø30	Brass= .003	Steuerzylinder Cylinder	Ø80	Aluminium= .108 = .508
Steuerzylinder Cylinder	Ø50	Brass= .105 Pressmessing-vernickelt/= .505 Brass nickel-plated Stainless steel (AISI 316 Ti) (Feinguß/Cast)= .305	Steuerzylinder Cylinder	125	Aluminium= .113 Aluminium nickel plated= .513

Valve options

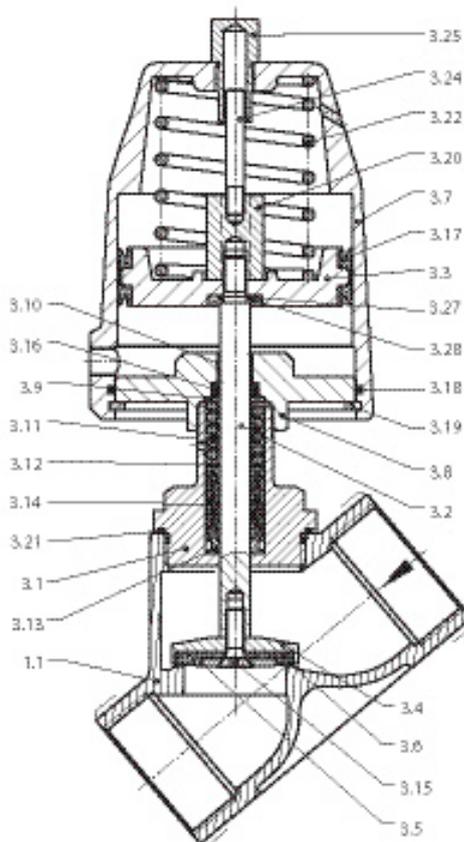
- Opt. mechanical indicator= IAA (only actuator 81.. and 91..)
- Varying temperature and pressure ranges
- Electr. position indicator (limit switch)= EH
- Manual operation= HA
- 2 inductive limit switches in transparent box= IJ
- Other control media
- Free of oil and grease= OF
- Vacuum design with soft padding= VU
- Vacuum design with rubber sealing, usable for pressure= VD

Stückliste - Parts list

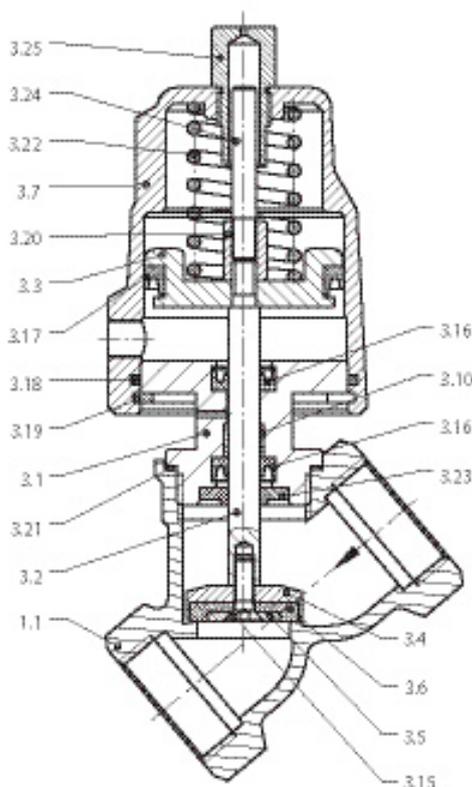
- K1.1 Armatur / Valve body
- K3.1 Verschraubung / Screw joint
- *K3.2 Spindel / Spindle
- K3.3 Kolben / Piston
- *K3.4 Ventilteller / Valve plate
- *K3.5 Scheibe / Disk
- *K3.6 Sitzdichtung / Orifice sealing
- K3.7 Zylinder / Cylinder
- K3.8 Flansch / Flange
- K3.9 Scheibe / Disk
- K3.10 DU-Gleitbuchse / DU-sliding bush
- K3.11 Feder / Spring
- K3.12 Scheibe / Disk
- *K3.13 Führungring / Guide ring
- *K3.14 V-Manschettenersatz / V-packing
- *K3.15 Senkschraube / Screw
- *K3.16 Nutring / U-ring
- *K3.17 Nutring / U-ring
- *K3.18 O-Ring / O-ring
- K3.19 Sicherungsring / Locking ring
- K3.20 Sicherungsmutter / Locking nut
- *K3.21 Flachdichtung / Sealing
- *K3.22 Feder / Spring
- *K3.23 Abstreifer / Rod wiper
- K3.24 Spindel / Spindle
- K3.25 Verschraubung / Screw joint
- *K3.27 O-Ring / O-ring
- K3.28 Scheibe / Disk

*= Bestandteil des Ersatzteilpackchens
(je nach Ausführung freibleibend).
*= Part of the service-set. These
specifications are without obligation).

Ausführung mit PTFE - Dichtung
Valve with PTFE - Sealing



Ausführung mit NBR - Dichtung
Valve with NBR - Sealing



Optische Stellungsanzeige
Mechanical position indicator

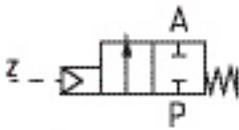
Bei den Ausführungen 7.05, 7.15, 7.08, 7.58, 7.13 und 7.63 sind die Pos. 3.24(Spindel) und 3.25 (Verschraubung-transparent) Standard

The following parts 3.24(stem) and 3.25 (screw joint) are standard for the versions 7.05, 7.15, 7.08, 7.58, 7.13 and 7.63

Stückliste - Parts list

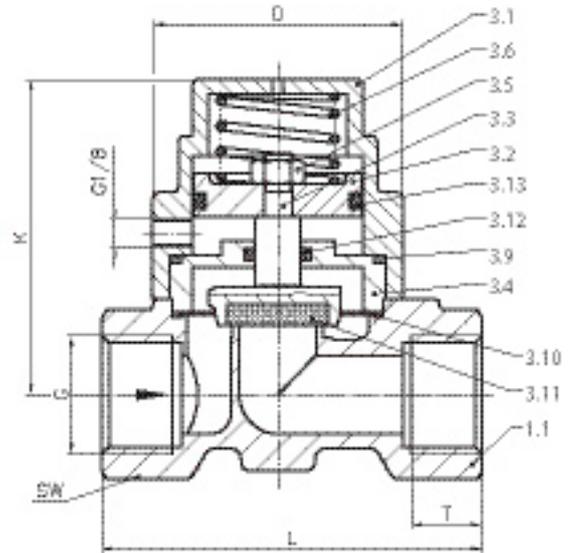
- K1.1 Armatur / Valve body
- K3.1 Zylinder / Cylinder
- K3.2 Kolben / Piston
- *K3.3 Spindel / spindle
- K3.4 Führungsring / Guide ring
- K3.5 Befestigungsmutter / Locking nut
- *K3.6 Feder / Spring
- *K3.9 O-Ring / O-ring
- *K3.10 O-Ring / O-ring
- *K3.11 Dichtung / Seal
- *K3.12 O-Ring / O-ring
- *K3.13 O-Ring / O-ring

Funktionen - Functions



Antrieb/Actuator 7003
 gegen Mediumstrom schließend,
 in Ruhestellung geschlossen
 dosing against flow direction
 in rest-position closed - NC

Maßzeichnung Standardausführung
 Dimensional drawing of standard type
 A632/1001/7003



Antrieb Actuator	7003		
Type	A6321	A6322	A6323
G	1/4	3/8	1/2
K	62	62	62
L	67	67	67
SW	27	27	27
D	44x44	44x44	44x44
T	14	14	14
kg	0,9	0,9	0,9

Alle Angaben sind verbindlich und unverbindlich !
 All technical specifications are without obligation !

Elektrische Stellungsanzeige - EH
 Electric position indicator - EH

- K3.75 Verschraubung / Screw joint
- K3.76 Befestigungsmutter / Locking nut
- K3.82 Schlitzschraube / Slotted screw
- K3.83 Permanentmagnet / Permanent magnet
- K3.84 Klemmring / Clamp ring
- K3.85 Verschraubung / Screw joint
- K3.86 Endschalter / Limit switch

3/2- Wege Steuerventil mit Innen-/Außengewinde
 3/2- Way pilot valve, with inner and outer threads

Type/Type A7231/1002/182.
 Direktgesteuert / Direct acting, G1/8, 0-8 bar

