Technical Data Sheet
Type 63

2/2-way pressure controlled valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)
DW - Valve with double acting actuator (as option)

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

- **Valve for clean, gaseous and liquid media**

Type 63

TECHNICAL SPECIFICATIONS

Type of control	Direct pressure operated
Design	Poppet design
Connection	Threaded acc. to DIN 228/1 (BSP) Further connections like NPT on request
Installation	Preferable with actuator upright
Pressure	0 - 40 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	600 mm²/s
Temperature range	Medium: -40 °C up to +200 °C Ambient: -10 °C up to +60 °C Depending on the sealing material
Body material	Red brass RG5 / Brass 2.0402 Stainless steel 1.4408
Metallic inner parts	Red brass / Brass and Stainless steel
Sealing	NBR, FKM, EPDM, PTFE Seat PTFE (further on request)
Pilot pressure	4 - 10 bar
Pilot medium	Clean and neutral gases Other pilot media on reqest

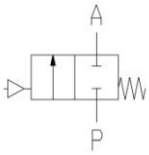
Pilot valve	**2/131-31-1702-C182**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Aluminum / Stainless steel / FKM with Cnomo-coil as well as with integrated screw connection for easy assembly
Pilot valve	**A7231/1002/....**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

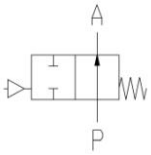
- No pressure difference required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts
- NO - non-pressurized open as option
- DW - double acting as option

FUNCTION

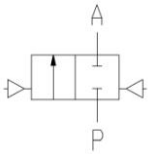
NC – non pressurized closed



NO – non pressurized open



DW - double acting



CERTIFICATES

Special design available for temperature ranges **-40 °C up to +300 °C** and **+160 °C** ambient.
Specification and drawings on request.

ORDERING SYSTEM

Type			Conn.		Housing	Seal		Actuator				Option	
.	6	3	2	3	/ 1 1	0	1	/ 7	1	0	5	-	H A

Conn.	Housing	Seal	Actuator	Option
23 G 1/2	08 Stainl. st. 1.4408	01 NBR	7 . Normally closed	. 5 50 mm
24 G 3/4	10 Brass 2.0402	02 FKM	8 . Normally open	. 8 80 mm
25 G 1	11 Red brass RG5	04 PTFE	9 . Double acting	. 3 125 mm
26 G 1 1/4		06 EPDM	. 1 Standard actuator	
27 G 1 1/2			. 3 Act. Stainless steel	
28 G 2			. 5 Act. chem. nickel pl.	
29 G 2 1/2				
30 G 3				

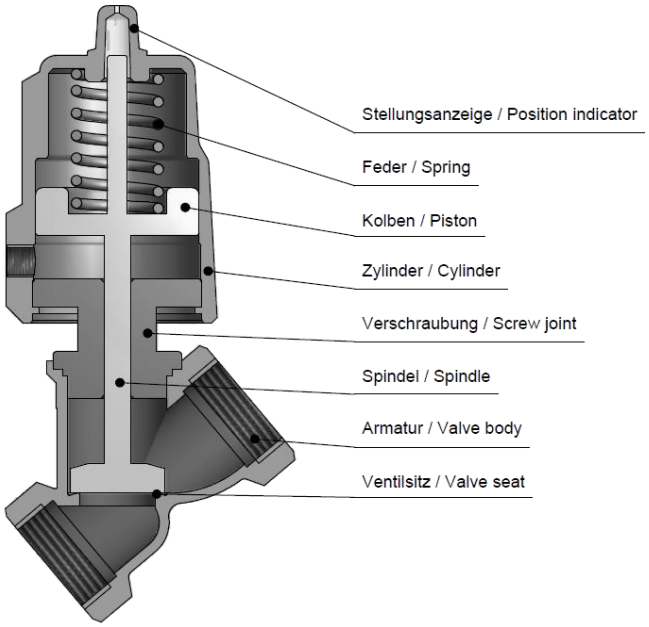
TECHNICAL FEATURES

Type 63

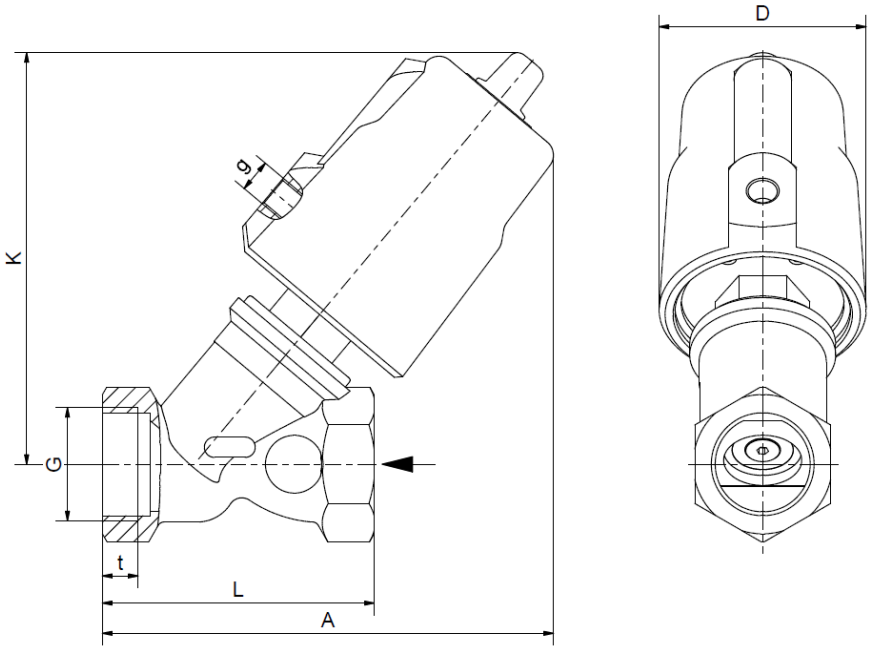
				max. pressure with actuator					
				7.05		7.08		7.13	
G	Seat Ø mm	Kv-value m³/h	Standard type	Rotguss	Edelstahl	Rotguss Messing	Edelstahl	Rotguss Messing	Edelstahl
1/2	12	4,6	.6323/..01(04)/7...	0-16	0-40	-	-	-	-
3/4	16	6,4	.6324/..01(04)/7...	0-16	0-20	-	0-40	-	-
1	23	8,4	.6325/..01(04)/7...	0-16	0-16	0-16	0-25	-	0-40
1 1/4	29	21,5	.6326/..01(04)/7...	0-10	0-10	0-16	0-25	-	0-40
1 1/2	35	27,0	.6327/..01(04)/7...	0-8	0-8	0-16	0-20	0-16	0-40
2	43	45,0	.6328/..01(04)/7...	0-4	0-4	0-12	0-12	0-16	0-20
2 1/2	63	82,0	.6329/..01(04)/7...	-	-	0-6	0-6	0-10	0-10
3	76	125,0	.6330/..01(04)/7...	-	-	0-4	0-4	0-10	0-10

				max. Druck bei Ausführung gegen den Mediendruck schließend					
				7.15 / 7.55		7.58		7.63	
G	Seat Ø mm	Kv-value m³/h	Standard type	Rotguss	Edelstahl	Rotguss Messing	Edelstahl	Rotguss Messing	Edelstahl
1/2	12	4,6	.6323/..01(04)/7...	0-16	0-40	-	-	-	-
3/4	16	6,4	.6324/..01(04)/7...	0-16	0-20	-	0-40	-	-
1	23	8,4	.6325/..01(04)/7...	0-10	0-10	0-16	0-22	-	0-40
1 1/4	29	21,5	.6326/..01(04)/7...	0-7	0-7	0-10	0-10	0-16	0-40
1 1/2	35	27,0	.6327/..01(04)/7...	0-6	0-6	0-8	0-8	0-16	0-30
2	43	45,0	.6328/..01(04)/7...	0-3	0-3	0-5	0-5	0-16	0-20
2 1/2	63	82,0	.6329/..01(04)/7...	-	-	0-1	0-1	0-8,5	0-8,5
3	76	125,0	.6330/..01(04)/7...	-	-	0-0,7	0-0,7	0-5	0-5

Values in brackets refer to the standard sealing material for stainless steel version
Specification of pressure valid for at least 6 bar control pressure



DIMENSIONS



Actuator	7.05						7.08		
Type	6323	6324	6325	6326	6327	6328	6324	6325	6326
G	1/2	3/4	1	1 1/4	1 1/2	2	3/4	1	1 1/4
A	123	130	133	153	162	171	174	175	185
D	62	62	62	62	62	62	94	94	94
K	113	118	122	139	146	155	170	168	174
L	66 (65)	75 (75)	80 (90)	97 (110)	107 (120)	124 (150)	75 (75)	80 (90)	97 (110)
g	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
t	13 (12)	15 (13)	11 (15)	13 (17)	15 (19)	17 (21)	15 (13)	11 (15)	13 (17)
kg	1,3	1,4	1,5	2,0	2,3	3,0	1,6	1,8	2,2

The values in brackets apply to the stainless steel version.

Actuator	7.08				7.13					
Type	6327	6328	6329	6330	6325	6326	6327	6328	6329	6330
G	1 1/2	2	2 1/2	3	1	1 1/4	1 1/2	2	2 1/2	3
A	192	203	247	265	240	250	255	261	307	325
D	94	94	94	94	140	140	140	140	140	140
K	181	190	205	211	239	245	250	254	267	273
L	107 (120)	124 (150)	178	195	80 (90)	97 (110)	107 (120)	124 (150)	178	195
g	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4
t	15 (19)	17 (21)	28	28	11 (15)	13 (17)	15 (19)	17 (21)	28	28
kg	2,5	3,3	5,5	7,0	4,5	4,8	4,5	5	7,4	9,0

The values in brackets apply to the stainless steel version.

INFORMATION

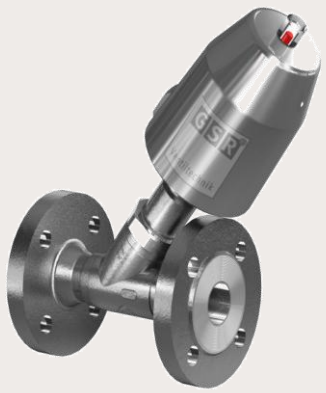
- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since , in addition to high temperatures , high pressures and high flow rates must also be taken into account when selecting the materials.

All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.

Stand: 05.18, MK-MG, Version 2



Technical Data Sheet Type 63FL

2/2-way pressure controlled valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)
DW - Valve with double acting actuator (as option)

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

- **Valve for clean, gaseous and liquid media**

Type 63FL

TECHNICAL SPECIFICATIONS

Type of control	Direct-pressure operated
Design	Poppet design
Connection	Flanges DN15 - DN80 EN 1092-1
Installation	Preferable with actuator upright
Pressure	0 - 40 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	600 mm²/s
Temperature range	Medium: -40 °C up to +200 °C Ambient: -40 °C up to +60 °C
Body material	Stainless steel1.4408 /1.4571
Metallic inner parts	Steinless steel
Sealing	PTFE
Pilot pressure	4 - 10 bar max pressure with at least 6 bar
Pilot medium	Clean and neutral gases Other pilot media on request

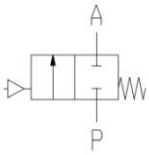
Suitable pilot valves	**2/131-31-1702-C182**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Aluminum / Stainless steel /FKM with Cnomo-coil as well as with integrated screw connection for easy assembly.
	A7231/1002/....
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

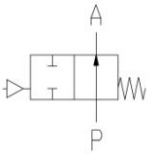
- No pressure difference required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts
- NO - non-pressurized open as option
- DW - double acting as option

FUNCTION

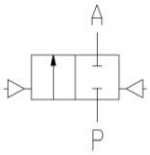
NC – non pressurized closed



NO – non pressurized open



DW - double acting



CERTIFICATES

Special design available for temperature ranges **-40 °C up to +300 °C**.
Daten und Zeichnungen auf Anfrage erhältlich.

ORDERING SYSTEM

Valve type						Actuator				Options
.	6	3	2	3	/	0	8	0	4	/	7	5	0	5	-	F	L

Connection
23 DN15
24 DN20
25 DN25
26 DN32
27 DN40
28 DN50
29 DN65
30 DN80

Body material
08 St.steel 1.4408

Seal material
04 PTFE

Actuator
7 . norm. Closed
8 . norm. open
9 . double acting
. 3 Act. St.steel
. 5 Act. nickel plated

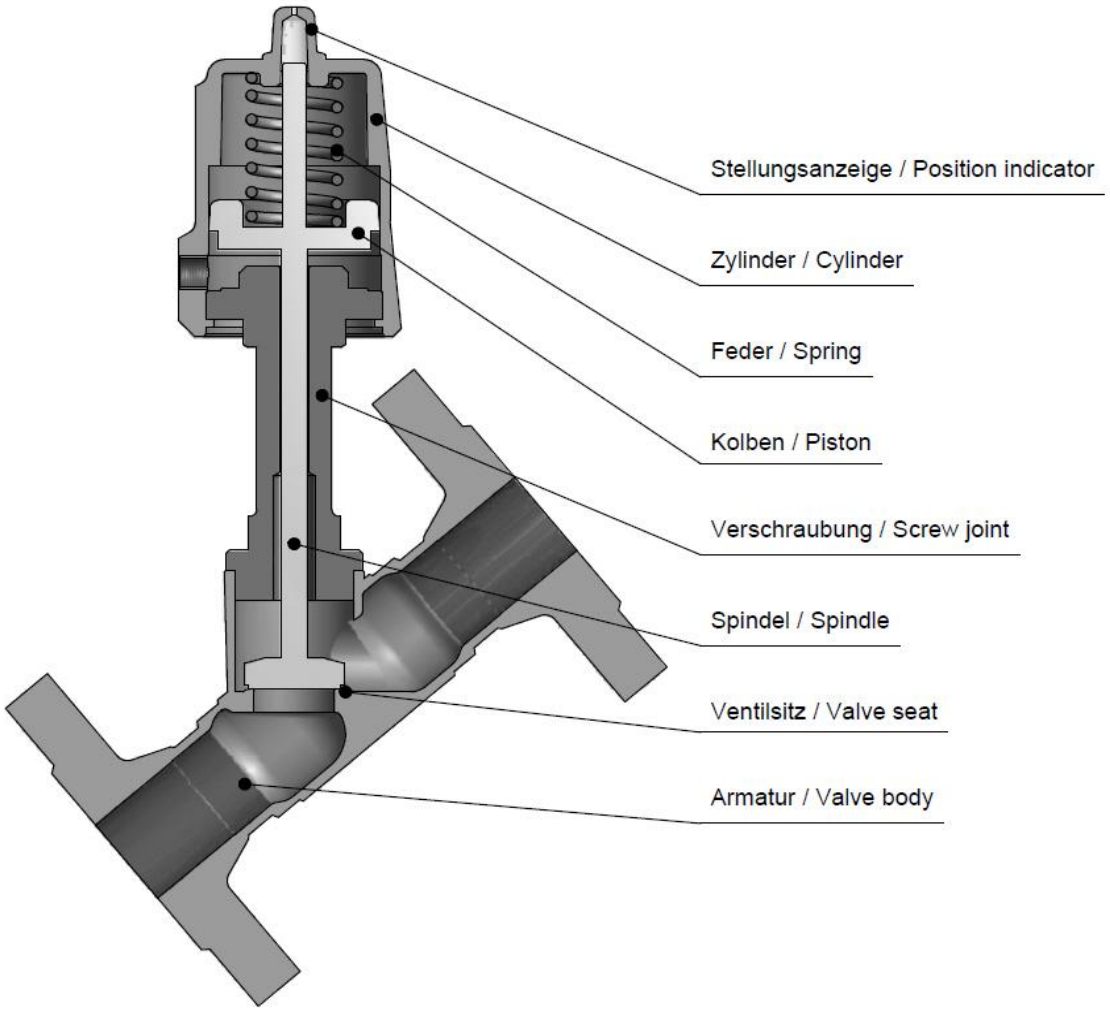
.5 50mm
.8 80 mm
.3 125 mm

Options
Flanges

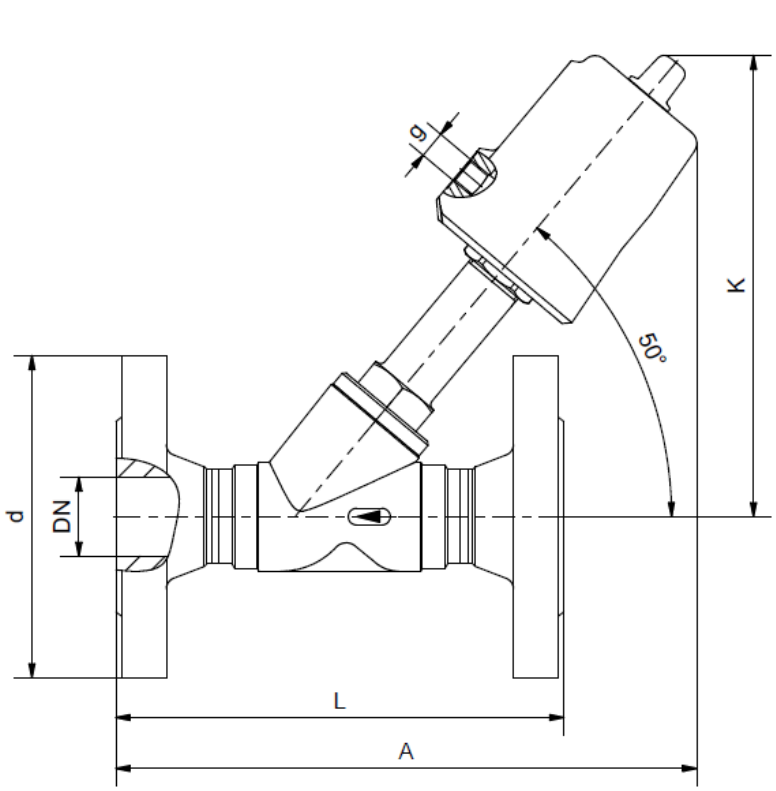
TECHNICAL FEATURES

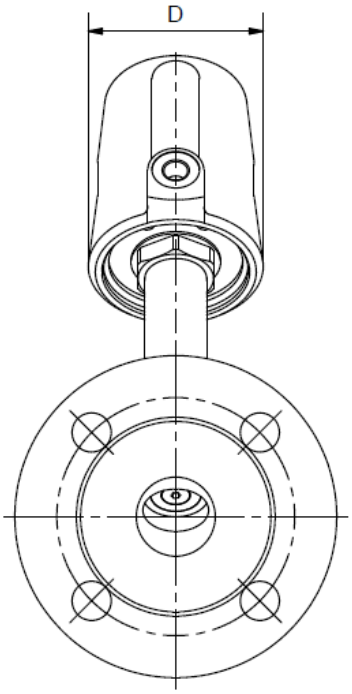
Type 63FL

				max. pressure with actuator		
DN	Seat Ø mm	Kv-value m³/h	Standard type	7.05	7.08	7.13
15	13	4,6	.6323/0804/7...-FL	0-40	-	-
20	18	6,4	.6324/0804/7...-FL	0-20	-	-
25	24	8,4	.6325/0804/7...-FL	0-16	0-25	-
32	31	21,5	.6326/0804/7...-FL	0-9	0-25	-
40	35	27,0	.6327/0804/7...-FL	0-7	0-20	0-40
50	45	45,0	.6328/0804/7...-FL	0-4	0-12	0-20
65	63	82,0	.6329/0804/7...-FL	-	0-6	0-10
80	75	125,0	.6330/0804/7...-FL	-	0-4	0-10



DIMENSIONS





Actuator	7.05						7.08		
Type	6323	6324	6325	6326	6327	6328	6325	6326	6327
DN	15	20	25	32	40	50	25	32	40
A	186	196	207	225	240	265	243	255	169
d	95	105	115	140	150	165	115	140	150
D	62	62	62	62	62	62	94	94	94
K	152	156	166	181	185	200	205	213	220
L	130	150	160	180	200	230	160	180	200
g	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
kg	2,9	3,6	4,1	5,9	6,6	8,8	4,8	6,2	6,8

Actuator	7.08			7.13			
Type	6328	6329	6330	6327	6328	6329	6330
DN	50	65	80	40	50	65	80
A	235	on req.	on req.	335	356	on req.	on req.
d	165	185	200	150	165	185	200
D	94	94	94	140	140	140	140
K	290	on req.	on req.	295	305	on req.	on req.
L	230	290	290	200	230	290	310
g	1/8	1/8	1/8	1/4	1/4	1/4	1/4
kg	8,9	on req.	on req.	9,0	11,0	on req.	on req.

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since , in addition to high temperatures , high pressures and high flow rates must also be taken into account when selecting the materials.

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Stand: 08.18, MK-MG, Version 1.

Baureihe 63 mit Schweißgehäuse - Type 63 with welded body

2/2-Wege fremdgesteuertes Ventil

2/2-Way externally controlled valve

Standardtype

In Ruhestellung ist das Ventil durch Feder- und Mediumdruck geschlossen. Wird der Antrieb mit Steuerdruck beaufschlagt, hebt dieser den Steuerkolben und gleichzeitig auch den Ventilteller an - das Ventil öffnet. Ventile dieser Bauart können auch mit der Funktion durch Federkraft geöffnet geliefert werden. Außerdem gibt es einen doppeltwirkenden Kolbenantrieb, der eine beliebige Durchflussrichtung ermöglicht.

Standard type

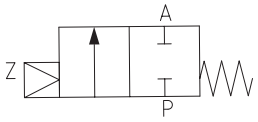
Valve normally closed by spring power.
When the actuator is pressurised, he lifts the piston and simoultaneously the valve head - the valve opens. Valves of this type are also available with the function open by spring force. Moreover, a double acting actuator is available which enables any flow direction.

Steuerungsart: Type of control:	druckgesteuert, direktgesteuert externally pressure controlled, direct controlled	Ventilgehäuse: Body material:	../08../..=Edelstahl 1.4408, PN40 ../08../..=Stainless steel 1.4408, PN40
Konstruktion: Construction:	Sitzventil mit Tellerdichtung Poppet design	Metall. Innenteile: Metallic internals:	Edelstahl 1.4301 Stainless steel (AISI 304)
Anschluss: Connection:	DN15 - DN50 Schweißanschluss DN15 - DN50 with welded ends	Sitzdichtung: Seat sealing:	PTFE PTFE
Druck: Pressure:	0-max. 40 bar (s. Tabelle) 0-max. 40 bar (see table)	Spindeldichtung: Spindle sealing:	PTFE (Edelstahl) PTFE (Stainless steel)
Durchflussmedium: Medium:	Wasser, Alkohole, Öle, Treibstoffe, Hydraulikflüssigkeit, Salzlösungen, Laugen, organische Lösungsmittel, Dampf Water, Alcohol, Oil, Fuels, Hydraulic fluid, Salt solution, Lye, Organic solvents, Steam	Einbaulage: Installation: Steuerdruck: Pilot pressure:	beliebig in any position 4 bis10 bar 4 to 10 bar
Viskosität: Viscosity:	600 mm^2/s 600 mm^2/s	Steuermedium: Pilot medium:	Luft, neutrale Flüssigkeiten, neutrale Gase Air, neutral fluids (clean), neutral gases
Mediumtemperatur: Medium temperature:	PTFE/FKM =-40 bis +200°C PTFE/FKM =-40 up to +200°C	Umgebungstemperatur: Ambient temperature:	+60°C +60°C

DN	Sitz Orifice ∅mm	Kv-Werte Flow-rate m^3/h	Standardtype Standard type PN16	maximaler Druckbereich bei 6 bar Steuerdruck max. pressure range with 6 bar control pressure					Werte in () = Gegendruckfestigkeit value in () = Back pressure stability				
				7003	7105	7108	7113	7155	7158	7163	8105	8108	8113
15	13	4,6	A6323/0804/....	-	0-25(9)	-	-	0-40	-	-	0-25	-	-
20	18	9,4	A6324/0804/....	-	0-20(6)	-	-	0-20	0-25	0-40	0-20	-	-
25	24	17,4	A6325/0804/....	-	0-16(2,5)	0-40(1)	-	0-10	0-22	0-40	0-16	-	-
32	31	21,5	A6326/0804/....	-	0-9(0,4)	0-25(1,8)	-	0-7	0-10	0-40	0-9	0-25	-
40	35	26,4	A6327/0804/....	-	0-7(0,3)	0-20(0,5)	-	0-6	0-8	0-30	0-7	0-20	-
50	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

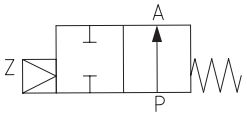
Bei Aluminium-Zylinder darf kein Wasser als Steuermedium verwendet werden. With aluminium-cylinder no water as control medium is allowed.

Funktionen-Functions



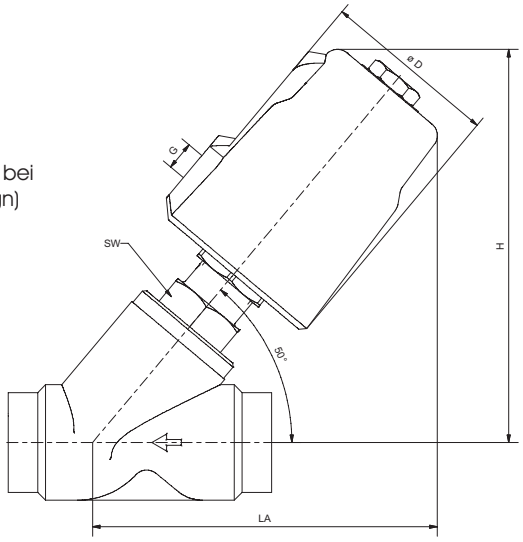
Antrieb/Actuator 7115, 7158, 7163
gegen Mediumstrom schließend,
in Ruhestellung geschlossen
closing against flow direction
in rest-position closed - NC.

(Keine Schließ- und Öffnungsschläge bei Flüssigkeiten/Anti-waterhammer design)

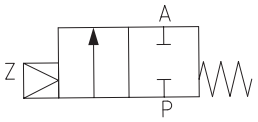


Antrieb/Actuator 8105, 8108, 8113
gegen Mediumstrom schließend,
in Ruhestellung offen
closing against flow direction
in rest-position open - NO.

Maßzeichnung Standardausführung
Dimensional drawing of standard type

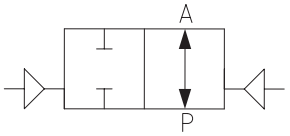


Funktionen-Functions



Antrieb/Actuator 7105, 7108, 7113
mit dem Mediumstrom schließend, in Ruhestellung geschlossen
Closing with flow direction in rest-position closed - NC.

(Es können Schließ- und Öffnungsschläge bei großer Durchflussgeschwindigkeit von Flüssigkeiten auftreten/Consider waterhammer when controlling liquids with high flow speed)



Antrieb/Actuator 9105, 9108, 9113
doppelwirkend, für beliebige Durchflussrichtung
Double acting function for any flow direction.

Antrieb Actuator	7105						7108					7113		
Type	6323	6324	6325	6326	6327	6328	6326	6327	6328	6329	6330	6328	6329	6330
LA	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
H	140	140	145	148	155	162	190	195	205	-	-	260	-	-
Kg	1,3	1,4	1,6	2,2	2,5	3,5	3,2	3,4	4,6	-	-	6,4	-	-

Alle Angaben sind freibleibend und unverbindlich/All technical specifications are without obligation!
Index(1): Werte für Standard-Ausführung in Edelstahl/Data for standard type in stainless steel

Steuerzylinder ∅50
Pressmessing/Brass= .105
Pressmessing-vernickelt/= .505
Brass nickel-plated
Edelstahl 1.4581/Stainless steel (AISI 316 Ti)
(Feinguss/Cast)= .305

Steuerzylinder ∅80
Cylinder
Alu-Druckguss/Aluminium= .108
Alu-Druckguss ch. vernickelt/= .508
Aluminium nickel plated
Edelstahl/Stainless steel = .308

Steuerzylinder ∅125
Cylinder
Alu-Druckguss/Aluminium= .113
Alu-Druckguss ch. vernickelt/
Aluminium nickel plated= .513

Weitere Ventilausführungen / Valve options

Opt. Stellungsanzeige= MA (für Antrieb 81.. u. 91..)
Opt. mechanical indicator= MA (only actuator 81.. and 91..)

Andere Steuermedien
Other control media

Abweichende Temperaturen und Drücke
Varying temperature and pressure ranges

Öl- und fettfrei= OF
Free of oil and grease= OF

Elektr. Stellungsanzeiger (Endschalter)= EH
Electr. position indicator (limit switch)= EH

Vakuumausführung mit Weichdichtung= VU
Vacuum design with soft packing= VU

Handbetätigung= HA
Manual operation= HA

Vakuumausführung mit Weichdichtung, auch für Druck= VD
Vacuum design with rubber sealing, usable for pressure= VD

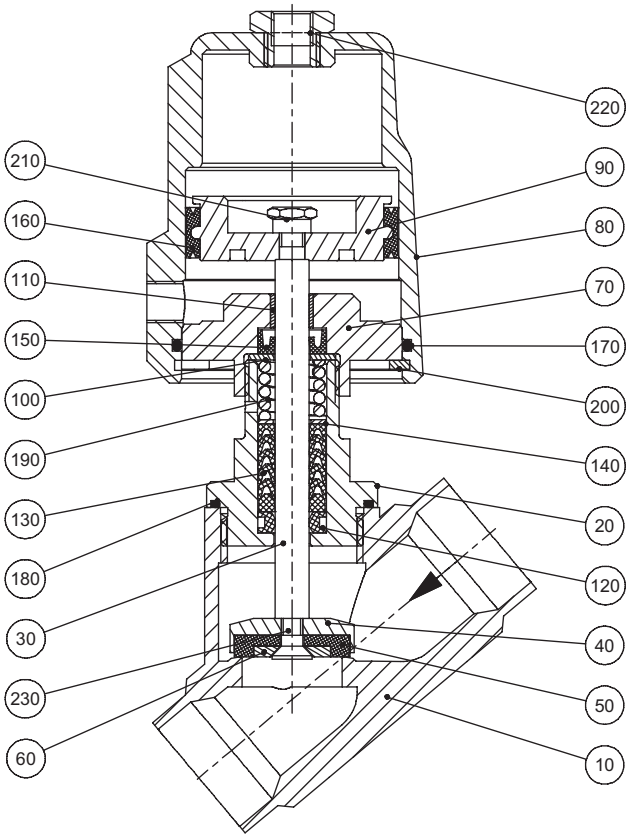
2 Stück induktive Endschalter im Klarsichtgehäuse= IJ

2 inductive limit switches in transparent box= IJ

Stückliste - Parts list

	10	Armatur / Valve body
	20	Verschraubung / Screw joint
*	30	Spindel / Spindle
*	40	Ventilteller / Valve plate
*	50	Sitzdichtung / Orifice sealing
*	60	Scheibe / Disk
	70	Flansch / Flange
	80	Zylinder / Cylinder
	90	Kolben / Piston
	100	Scheibe / Disk
	110	DU-Gleitbuchse / Sliding bushing
*	120	Führungsring / Guide ring
*	130	V-Manschettensatz / V-packing
	140	Scheibe / Disk
*	150	Nutring / U-ring
*	160	Nutring / U-ring
*	170	O-Ring / O-ring
*	180	Flachdichtung / Sealing
	190	Feder / Spring
	200	Sicherungsring / Locking ring
	210	Sicherungsmutter / Locking nut
	220	Verschraubung / Screw joint
*	230	Senkschraube / Srew

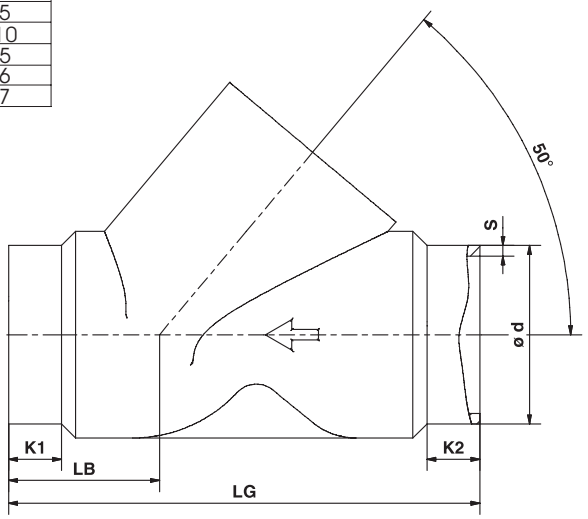
Ausführung mit PTFE - Dichtung
Valve with PTFE - Sealing



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

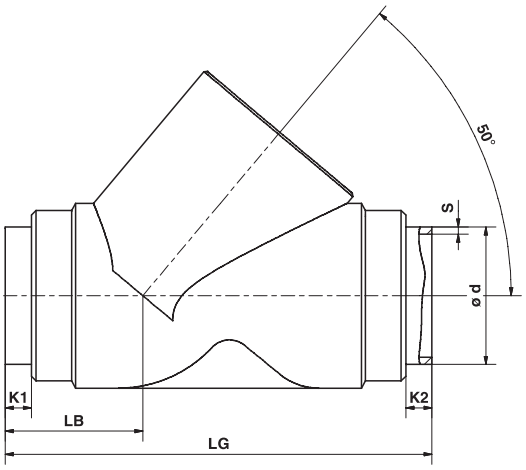
Anschweißenden (mm) / Welded ends (mm)
Ventilkörperwerkstoff 1.4408 EN ISO1127/ ISO4200 = Option A9
Valve body material 1.4408 EN ISO1127/ ISO4200 = Option A9

DN	LG	LB	∅ d	S	K1	K2
15	65	21,5	21,3	1,6	5	5
20	75	24,5	26,9	1,6	5	5
25	89	28,4	33,7	2	10	10
32	110	34	42,4	2	5	5
40	120	38	48,3	2	6	6
50	150	49	60,3	2,6	7	7



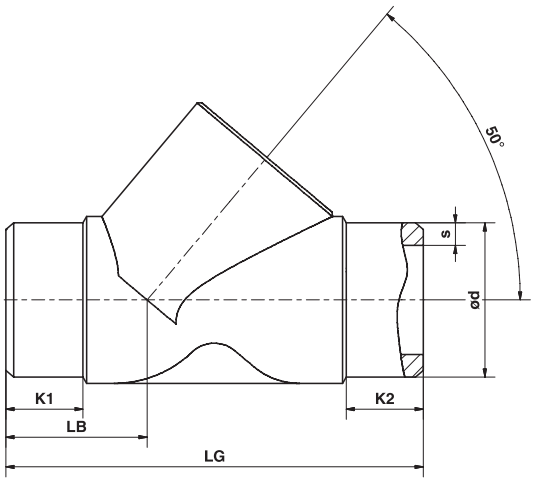
Anschweißenden (mm) / Welded ends (mm)
Ventilkörperwerkstoff 1.4408 DIN11850 Reihe2 = Option A5
Valve body material 1.4408 DIN11850 line2 = Option A5

DN	LG	LB	∅ d	S	K1	K2
15	64	20,44	19	1,5	4,5	4,5
20	75	24,5	23	1,5	5,5	5,5
25	90	29	29	1,5	5,5	5,5
32	110	34	35	1,5	6	6
40	120	38	41	1,5	6	6
50	149	48,2	53	1,5	6,5	6,5



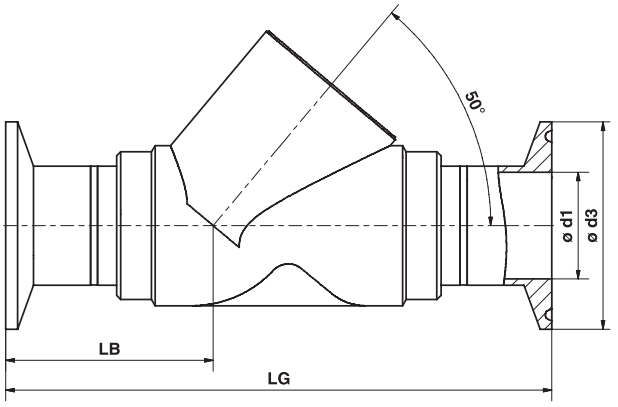
Anschweißenden (mm) / Welded ends (mm)
Ventilkörperwerkstoff 1.4408 DIN3239 = Option AS
Valve body material 1.4408 DIN3239 = Option AS

DN	LG	LB	∅ d	S	K1	K2
15	65	21,5	24	3,5	12	12
20	75	24,5	30	4	13	12
25	90	27,5	36	4	14	14
32	110	33,5	45	5	17	17
40	120	38	52	5,5	18	18
50	150	49	65	5,5	22	22



Clamp-Anschluss / Clamp-Connection
Ventilkörperwerkstoff 1.4408 DIN32676 = Option KJ
Valve body material 1.4408 DIN32676 = Option KJ

DN	LG	LB	∅ d1	∅ d3
15	130	48	16	34
20	150	54	20	34
25	160	56	26	50,5
32	180	60,5	32	50,5
40	200	67	38	50,5
50	230	73	50	64



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E-mail: info@ventiltechnik.de http://www.ventiltechnik.de

Technical Data Sheet
Type 63G

2/2-way pressure operated valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

- **Valve for clean, gaseous and liquid media**

Type 63G

TECHNICAL SPECIFICATIONS

Type of control	Direct pressure operated
Design	Poppet design
Connection	Threaded G 1/4 - G 1/2 DIN ISO 228/1 Further connections like NPT on request
Installation	Preferable with actuator upright
Pressure	0 - 16 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
Viscosity	600 mm²/s
Temperature range	Medium: -10 °C up to +80 °C Ambient: -10 °C up to +60 °C
Body material	Brass 2.0401 Stainless steel 1.4571 / 1.4581
Metallic inner parts	Brass and Stainless steel
Sealing	NBR, FKM, EPDM
Pilot pressure	4 - 10 bar
Pilot medium	Clean and neutral gases Other pilot-media on request

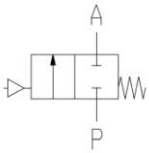
Pilot valve	**2/131-31-1702-C182**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Aluminum / Stainless steel / FKM with Cnomo-coil as well as with integrated screw-connection for easy assembly
Pilot valve	**A7231/1002/....**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

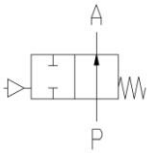
- No pressure difference required
- High life time
- Simple compact valve design
- Low weight
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

NC – non pressurized closed



NO – non pressurized open



CERTIFICATES

ORDERING SYSTEM

Type	Conn.		Housing	Seal		Actuator
. 6 3	2 3	/	1 0	0 1	/	7 0 0 3
	47 G 1/4 6 mm 58 G 3/8 8 mm 69 G 1/2 10 mm 21 G 1/4 22 G 3/8 23 G 1/2		08 Stainl. St. 1.4571 10 Brass 2.0402	01 NBR 02 FKM 06 EPDM		7 . Normally closed 8 . Normally open . 0 Standard actuator . 3 Act. stainless steel . 5 Act. chem. nickel pl. . 3 30 mm

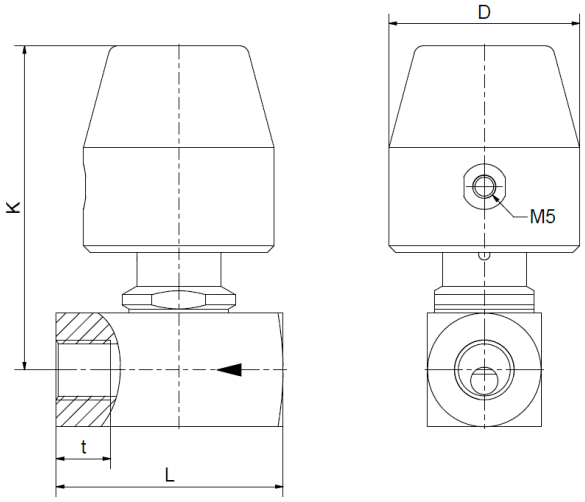
TECHNICAL FEATURES

Type 63G

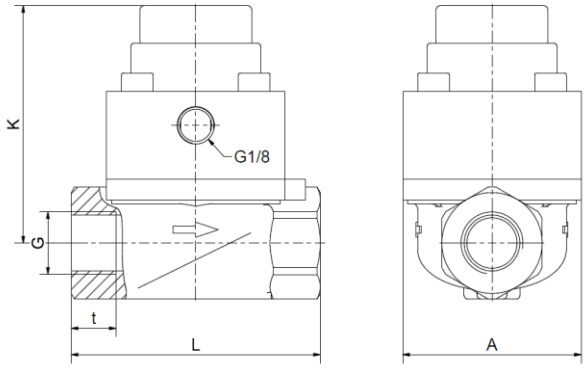
G	Seat Ø mm	Kv-value m³/h	Standard type	max. pressure with actuator		
				7.03	7.53	8.03 (NO)
1/4	6	0,75	.6347/..01/7003	0-16	0-16	0-16
3/8	8	0,9	.6358/..01/7003	0-16	0-16	0-16
1/2	10	1,7	.6369/..01/7003	0-16	0-16	0-12

G	Seat Ø mm	Kv-value m³/h	Standard type	max. pressure with actuator		
				7.03	7.53	8.03 (NO)
1/4	13	1,8	.6321/1001/7003	0-10	0-10	0-10
	13,5	1,8	.6321/0801/7503	0-10	0-10	0-10
3/8	13	3,6	.6322/1001/7003	0-10	0-10	0-10
	13,5	3,6	.6322/0801/7503	0-10	0-10	0-10
1/2	13	3,9	.6323/1001/7003	0-10	0-10	0-10
	13,5	3,9	.6323/0801/7503	0-10	0-10	0-10

Type 6347 / 6358 / 6369



Type 6321-23 Brass and Stainless steel



Actuator	7.03								
Type	6347	6358	6369	6321/10.	6322/10.	6323/10.	6321/08.	6322/08.	6323/08.
G	1/4	3/8	1/2	1/4	3/8	1/2	1/4	3/8	1/2
A	-	-	-	48	48	48	48	48	48
D	42	42	42	-	-	-	-	-	-
K	72	81	81	64	64	64	64	64	64
L	50	54	54	67	67	67	67	67	67
t	12	12,5	13	12	12	13	14	12,5	12,5
kg	0,6	0,7	0,6	0,8	0,8	0,7	0,7	0,7	0,6

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since , in addition to high temperatures , high pressures and high flow rates must also be taken into account when selecting the materials.

All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.

Stand: 05.17, MK-MG, Version 1.

Technical Data Sheet Type 2/668

2/3-way pressure operated valve
NC - Valve normally closed and with
double acting actuator

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

- **Valve for clean, gaseous and liquid media**

GSR Ventiltechnik

Type 2/668

TECHNICAL SPECIFICATIONS

Type of control	Direct pressure operated
Design	Cone-shaped piston
Connection	Threaded G1/2 - G2 DIN EN 228/1 (BSP)
Installation	Preferable with actuator upright
Pressure	0 - 7 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	600 mm²/s
Temperature range	Medium: -10 °C up to +80 °C Ambient: -10 °C up to +60 °C
Body material	Red brass RG5 Stainless steel 1.4408
Metallic inner parts	Red brass / Brass and Stainless steel
Sealing	PTFE
Pilot pressure	4 - 10 bar max pressure with at least 6 bar
Pilot medium	Clean and neutral gases Other pilot media on reqest

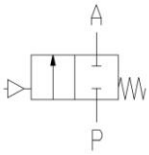
Pilot valve	**2/131-31-1702-C182**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Aluminum / Stainless steel / FKM with Cnomo-coil as well as with integrated screw connection for easy assembly
	A7231/1002/....
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

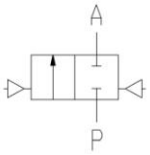
- Adjustable positioning (center)
- No pressure difference required
- High life time
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

NC – non pressurized closed



Positioning



CERTIFICATES

ORDERING SYSTEM

Type					Connect.		Housing	Seal		Actuator			
2	/	6	6	8	-	2 3	-	1 1	0 4	-	7	1	0 8	- KP

Connect.: 23 G 1/2; 24 G 3/4; 25 G 1; 26 G 1 1/4; 27 G 1 1/2; 28 G 2

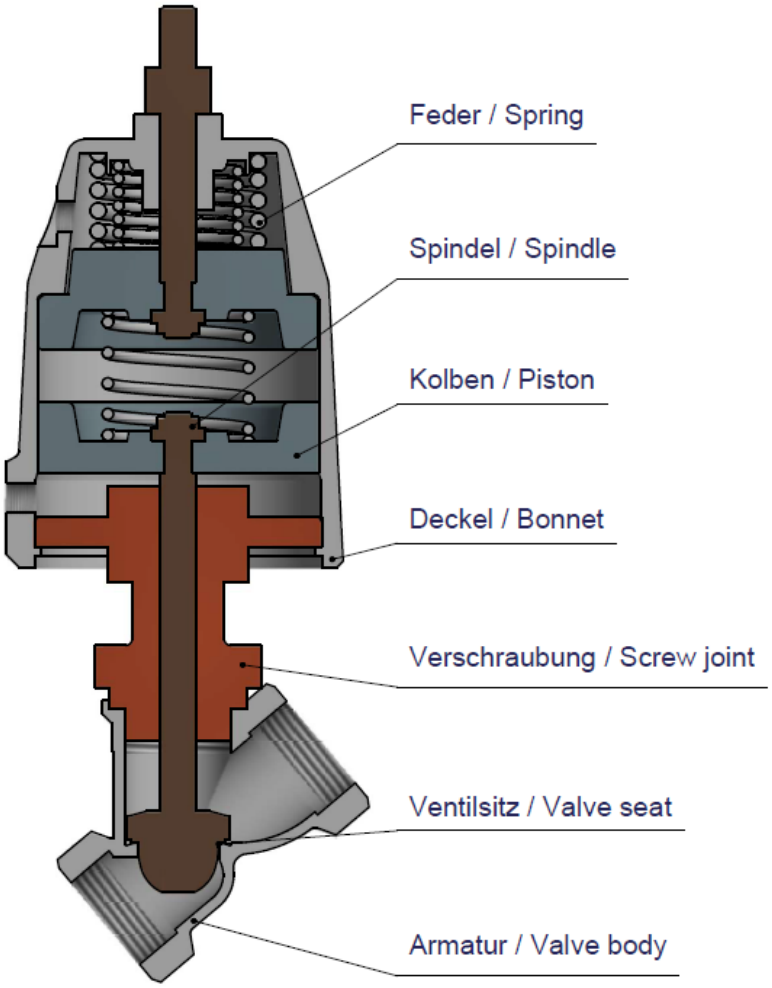
Housing: 08 St.steel 1.4408; 11 Brass RG5

Seal: 04 PTFE

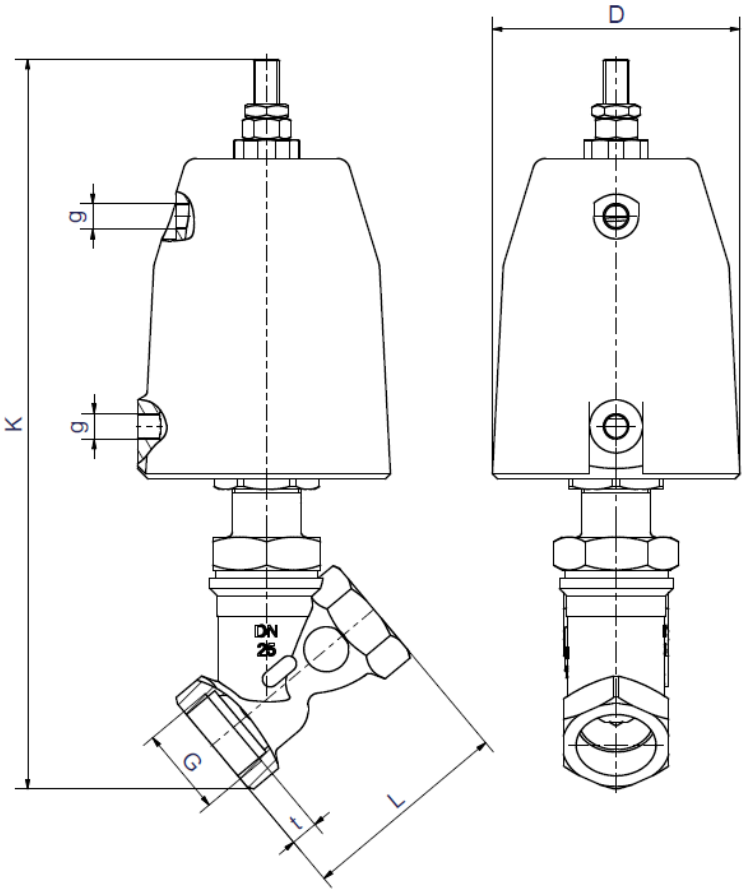
Actuator: 7 . Normally closed; . 1 Standard actuator; . 3 Act. Stainless steel; . 5 Act. chem. nickel pl.; . 8 80 mm

TECHNICAL FEATURES

				max. pressure with actuator
				7.08-KP
G	Seat Ø mm	Kv-value m³/h	Standard type	bar
1/2	12	4,6	2/668-23-..04-	0-7
3/4	16	6,4	2/668-24-..04-	0-7
1	23	12,0	2/668-25-..04-	0-7
1 1/4	29	21,5	2/668-26-..04-	0-7
1 1/2	35	27,0	2/668-27-..04-	0-7
2	43	46,0	2/668-28-..04-	0-7



DIMENSIONS



Actuator	7.08-KP					
Type	2/668-23	2/668-24	2/668-25	2/668-26	2/668-27	2/668-28
G	1/2	3/4	1	1 1/4	1 1/2	2
d	94	94	94	94	94	94
K	263	266	277	290	301	320
L	66	75	80	97	107	124
t	13,2	14,5	10,5	12,5	14,5	16,5
g	1/8	1/8	1/8	1/8	1/8	1/8
kg	1,9	1,9	2,2	2,7	2,9	3,4

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since , in addition to high temperatures , high pressures and high flow rates must also be taken into account when selecting the materials.

All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.

Stand: 06.18, MK-MG, Version 1.

Technical Data Sheet Type 22

2/2-way pressure operated valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)
DW - Valve with double acting actuator (as option)

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

- **Valve for clean, gaseous and liquid media**

Type 22

TECHNICAL SPECIFICATIONS

Type of control	Direct pressure operated
Design	Poppet design
Connection	Flanged DN15 - DN200 EN 1092-1 Form B1/B2
Installation	Preferable with actuator upright
Pressure	0 - 40 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	600 mm²/s
Temperature range	Medium: -40 °C up to +200 °C Ambient: -10 °C up to +60 °C
Body material	Cast iron EN-GJL-240 Cast steel GP240 GH Spheroidal cast EN-GJS-400-18-LT Stainless steel 1.4408
Metallic inner parts	Brass and Stainless steel
Sealing	PTFE, FKM, EPDM
Pilot pressure	4 - 10 bar max pressure with at least 6 bar
Pilot medium	Clean and neutral gases Other pilot media on reqest

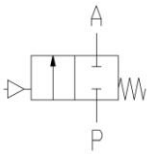
Pilot valve	**2/131-31-1702-C182**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Aluminum / Stainless steel / FKM with Cnomo-coil as well as with integrated screw connection for easy assembly
	A7231/1002/....
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

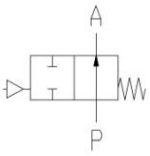
- No pressure difference required
- High life time
- Simple compact valve design
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

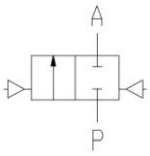
NC – non pressurized closed



NO – non pressurized open



DW - double acting



CERTIFICATES

ORDERING SYSTEM

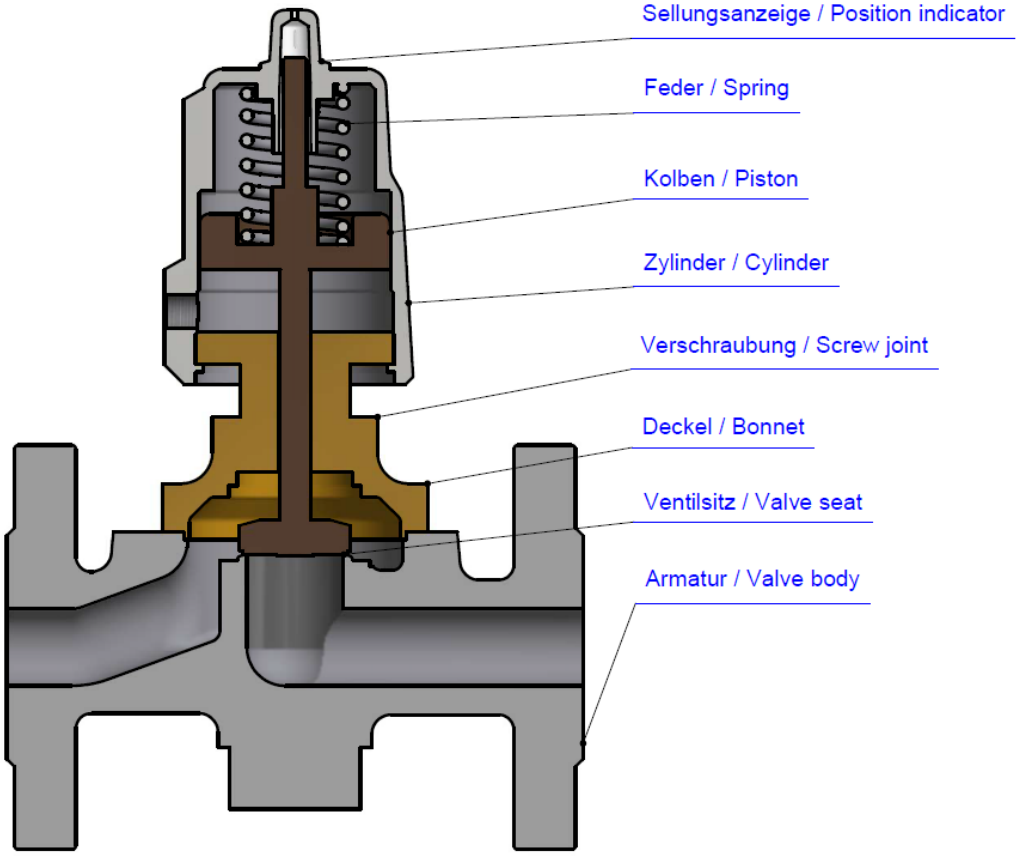
Type		Conn.		Housing	Seal		Actuator			
.	2	2	0	6	/ 0	4	0	4	/ 7	0	0	8

01	DN15	03	EN-GJS-400-18-LT	7 . Normally closed
02	DN20	04	EN-GJL-250	8 . Normally open
03	DN25	05	GP240 GH	9 . Double acting
04	DN32	08	Edelstahl 1.4408	. 0 Standard actuator
05	DN40			. 3 Act. Stainless steel
06	DN50	02	FKM	. 5 Act. chem. nickel pl.
07	DN65	04	PTFE	
08	DN80	06	EPDM	. 5 50 mm
09	DN100			. 8 80 mm
10	DN125			. 3 125 mm
11	DN150			
12	DN200			

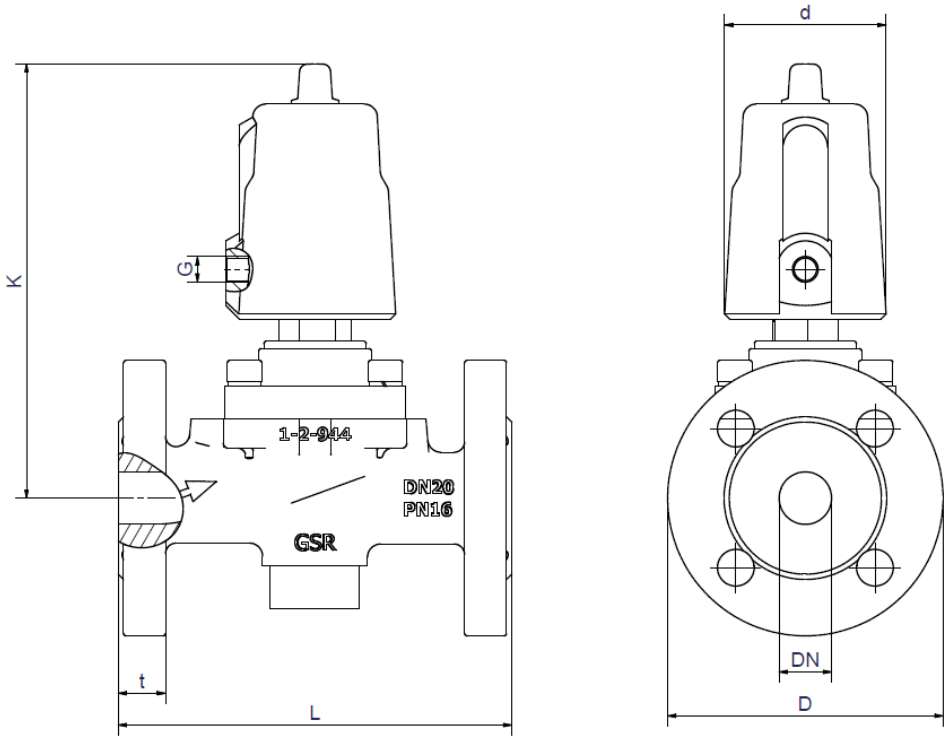
TECHNICAL FEATURES

Type 22

			max. pressure with actuator					
			7.05		7.08		7.13	
DN	Kv-value m³/h	Standard type	Cast iron	Cast steel St.steel	Cast iron	Cast steel St.steel	Cast iron Spher. cast	Cast steel St.steel
15	6,8	.2201/..04/	-	0-20	-	0-40	-	-
20	6,8	.2202/..04/	0-13	0-12	-	0-25	-	-
25	11,0	.2203/..04/	0-13	0-13	0-13	0-25	-	-
32	18,0	.2204/..04/	0-5	0-5	0-13	0-14	-	-
40	27,0	.2205/..04/	0-5	0-5	0-13	0-14	-	-
50	43,0	.2206/..04/	0-3	0-3	0-9	0-9	0-13	0-20
65	71,0	.2207/..04/	-	-	0-6	0-6	0-13	0-15
80	111,0	.2208/..04/	-	-	0-4	0-4	0-10	0-10
100	173,0	.2209/..04/	-	-	0-2,5	0-2,5	0-6	0-6
125	on req.	.2210/0304/	-	-	-	-	0-4,5	-
150	on req.	.2211/0304/	-	-	-	-	0-3	-
200	on req.	.2212/0304/	-	-	-	-	0-1,5	-



DIMENSIONS



Actuator	7005						7008			
Type	2201	2202	2203	2204	2205	2206	2201	2202	2203	2204
DN	15	20	25	32	40	50	15	20	25	32
d	62	62	62	62	62	62	94	94	94	94
G	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
K	178	182	182	208	208	209	235	231	232	245
D	95	105	115	140	150	165	95	105	115	140
L	130	150	160	180	200	230	130	150	160	180
t	16	18	18	18	18	20	16	18	18	18
kg	3,5	4,7	5,4	8,2	8,7	11,8	3,8	5,1	5,7	8,3
Different dimension K with body EN-GJL-250										

Actuator	7008					7013						
Type	2205	2206	2207	2208	2209	2206	2207	2208	2209	2210	2211	2212
DN	40	50	65	80	100	50	65	80	100	125	150	200
d	94	94	94	94	94	141	141	141	141	141	141	141
G	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4
K	245	256	270	283	303	339	347	359	382	407	439	531
D	150	165	185	200	235	165	185	200	220	250	285	340
L	200	230	290	310	350	230	290	310	350	400	480	600
t	18	20	20	25	25	20	19	21	24	26	26	32
kg	8,8	12,0	15,8	22,0	30,2	13,7	25,3	24,8	39,5	11,6	24,5	105,1
Different dimension K with body EN-GJL-250												

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since , in addition to high temperatures , high pressures and high flow rates must also be taken into account when selecting the materials.

All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.

Stand: 12.17, MK-MG, Version 1.

Technical Data Sheet
Type 26

2/2-way pressure operated valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)
DW - Valve with double acting actuator (as option)

Force-pilot operated piston design valve. No differential pressure is necessary for operation. In standard (NC) the valve closes with spring power.

Valve for clean, gaseous and liquid media

Type 26

TECHNICAL SPECIFICATIONS

Type of control	Pressure operated
Design	Piston design
Connection	Flanges DN15 - DN300 EN 1092-1 Form B1/B2
Installation	Preferable with actuator upright
Pressure	0 - 40 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	22 mm²/s
Temperature range	Medium: -40 °C up to +200 °C Ambient: -10 °C up to +60 °C
Body material	Spheroidal cast EN-GJS-400-18-LT Cast iron EN-GJL-250 Cast steel GP240 GH Stainless steel 1.4581 / 1.4408
Metallic inner parts	Brass and Stainless steel
Sealing	NBR, FKM, EPDM, PTFE
Pilot pressure	4 - 10 bar max pressure with at least 6 bar
Pilot medium	Clean and neutral gases

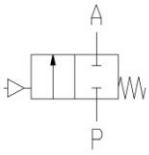
Pilot valve	**2/131-31-1702-C182**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Aluminum / Stainless steel / FKM with Cnomo-coil as well as with integrated screw connection for easy assembly
	A7231/1002/....
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

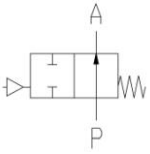
- No pressure difference required
- High life time
- Simple compact valve design
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

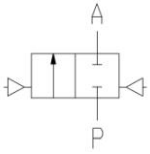
NC – non pressurized closed



NO – non pressurized open



DW - double acting



CERTIFICATES

ORDERING SYSTEM

Type			Conn.		Housing		Seal		Actuator			Option	
.	2	6	0	9	/ 0	4	0	4	/ 7	0	0	8	- H A

Conn.	
01	DN15
02	DN20
03	DN25
04	DN32
05	DN40
06	DN50
07	DN65
08	DN80
09	DN100
10	DN125
11	DN150
12	DN200
13	DN250
14	DN300

Housing	
03	EN-GJS-400-18-LT
04	EN-GJL-250
05	GP240 GH
08	St.steel 1.4408

Seal	
01	NBR
02	FKM
04	PTFE
06	EPDM

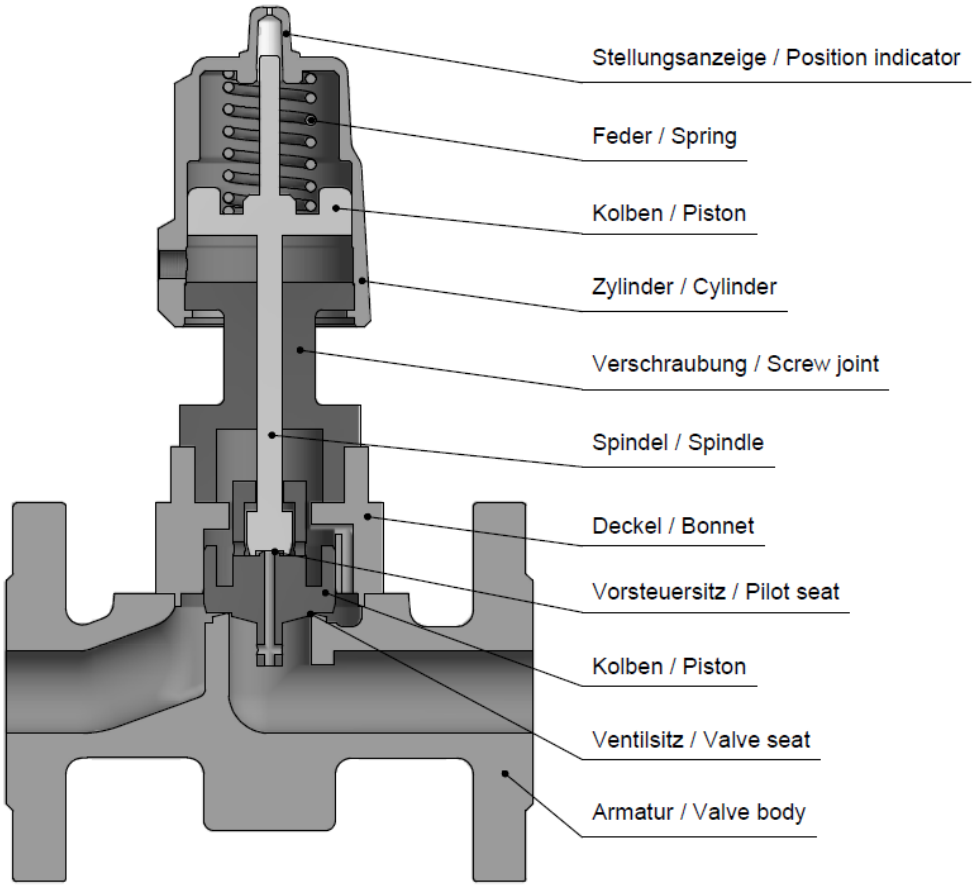
Actuator	
7 .	Normally closed
8 .	Normally open
9 .	Double acting
. 0	Standard actuator
. 3	Act. Stainless steel
. 5	Act. chem. nickel pl.

Option	
. 5	50 mm
. 8	80 mm
. 3	125 mm

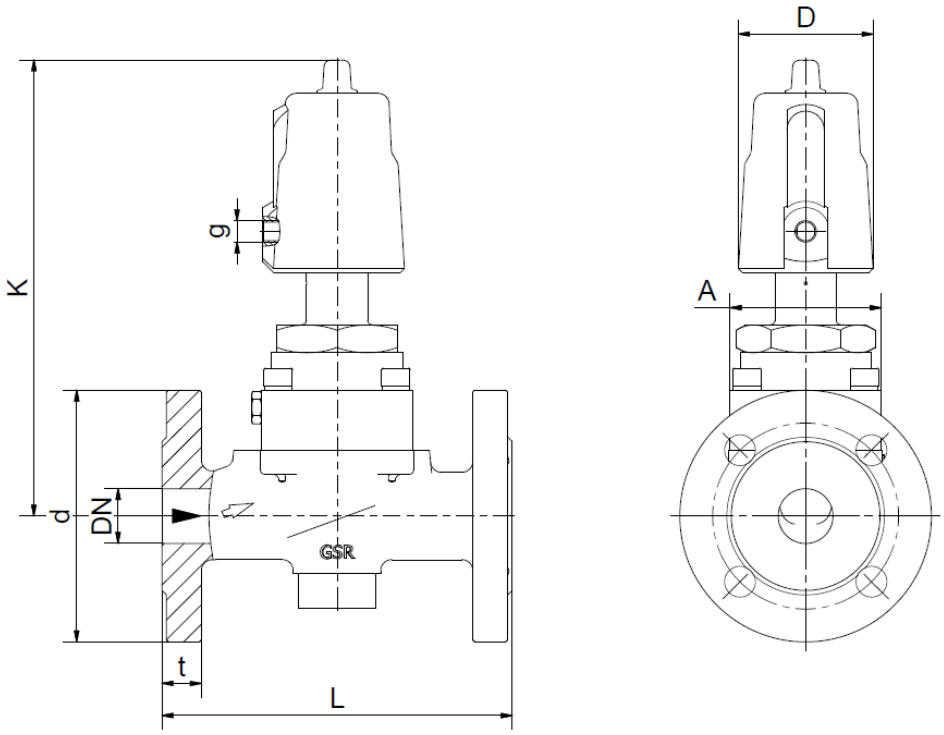
TECHNICAL FEATURES

			max. pressure with actuator		
DN	Kv-value m³/h	Standard type	7.05	7.08	7.13
15	6,8	.2601/..04/	0-40	-	-
20	8,8	.2602/..04/	0-40	-	-
25	11,5	.2603/..04/	0-40	-	-
32	18,0	.2604/..04/	0-16	0-40	-
40	26,0	.2605/..04/	0-16	0-40	-
50	38,0	.2606/..04/	0-16	0-40	-
65	62,0	.2607/..04/	0-16	0-40	-
80	89,0	.2608/..04/	0-16	0-40	-
100	125,0	.2609/..04/	-	0-40	-
125	265,0	.2610/..04/	-	0-40	-
150	377,0	.2611/..04/	-	0-16	0-40
200	667,0	.2612/0304/	-	0-16	-
250	a.Anfr.	.2613/0304/	-	0-16	-
300	a.Anfr.	.2614/0304/	-	0-16	-

The flow rate mentioned in the table applies to the most strongest actuator
Pressure range for cast iron EN-GJL-250 is max. 16 bar.



DIMENSIONS



Actuator	7005								
Type	2601	2602	2603	2604	2605	2606	2607	2608	2609
DN	15	20	25	32	40	50	65	80	100
A	48 (44)	70 (69)	70 (69)	98	98	112	215 (180)	245	on req.
d	95	105	115	140	150	165	185	200	220
D	62	62	62	62	62	62	62	62	62
K	220 (215)	223 (220)	225 (220)	245 (230)	250 (235)	240 (240)	285 (265)	290	on req.
L	130	150	160	180	200	230	290	310	350
g	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
t	16	18	18	18	18	20	22	24	24
kg	4,5 (3,6)	6,0	6,0	10,5 (9,0)	11,0	12,5	23,5 (26)	31,0	on req.
The values in brackets refer to the stainless steel version (DN15 - DN100)									

Actuator	7008								7013
Type	2604	2605	2606	2607	2608	2609	2610	2611	2611
DN	32	40	50	65	80	100	125	150	150
A	98	98	112	215	245	270	235	265	on req.
d	140	150	165	185	200	235	270	300	300
D	94	94	94	94	94	94	94	94	141
K	290 (280)	290 (280)	300 (275)	330 (405)	295	315	350	395	on req.
L	180	200	230	290	310	350	400	480	480
g	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4
t	18	18	20	22	24	24	26	28	28
kg	11,0	11,5	13,5 (12)	25,5 (28)	34,0	48,5	53,5	75,0	on req.
The values in brackets refer to the stainless steel version (DN15 - DN100)									

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since , in addition to high temperatures , high pressures and high flow rates must also be taken into account when selecting the materials.

All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.

Stand: 09.17, MK-MG, Version 1.

Technical Data Sheet Type 3/151

2/2-way pressure operated valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)
DW - Valve with double acting actuator (as option)

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

- **Valve for clean, gaseous and liquid media**

Type 3/151

TECHNICAL SPECIFICATIONS

Type of control	Direct-pressure operated
Design	Diaphragm design
Connection	Flanges DN15 - DN50 EN 1092-1 Form B1/B2
Installation	Preferable with actuator upright
Pressure	0 - 10 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	50 mm²/s
Temperature range	Medium: -10 °C up to +80 °C Ambient: -10 °C up to +50 °C
Body material	EN-GJS-400-18-LT
Metallic inner parts	PFA coated
Sealing	2-piece PTFE diaphragm
Pilot pressure	6 bar
Pilot medium	Clean and neutral gases

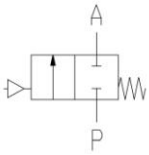
	A7241/1002/....
	3/2-way direct operated, NC G1/4, orifice 1,5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

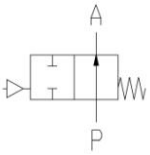
- No pressure difference required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts
- NO - non-pressurized open as option
- DW - double acting as option

FUNCTION

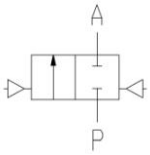
NC – non pressurized closed



NO – non pressurized open



DW - double acting



ORDERING SYSTEM

Type						Connect.		Housing		Seal		Option	
3	/	1	5	1	-	0	2	0	3	0	4	.	.

Connect.	
01	DN15
02	DN20
03	DN25
04	DN32
05	DN40
06	DN50

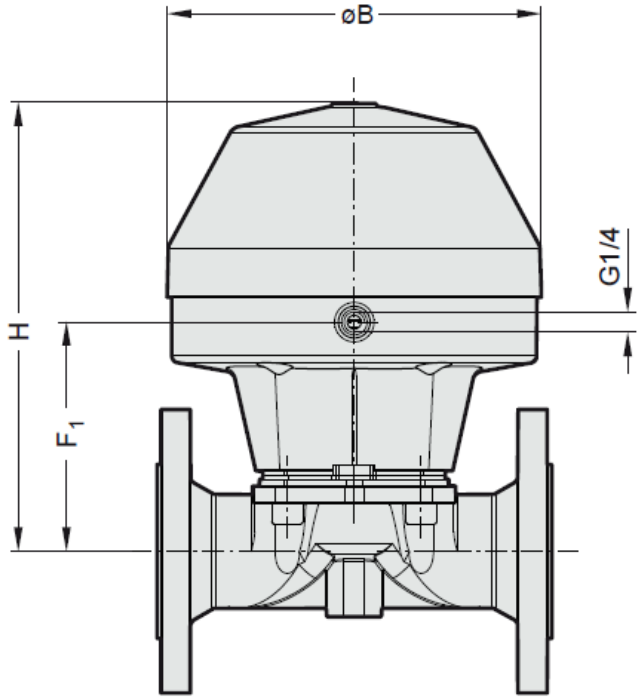
Housing	
03	EN-GJS-400-18-LT

Seal	
04	PTFE

TECHNICAL FEATURES

Type 3/151

			max. pressure
DN	Kv-value m³/h	Standard type	bar
15	5,0	3/151-01-0304	0-10
20	9,0	3/151-02-0304	0-10
25	13,0	3/151-03-0304	0-10
32	23,0	3/151-04-0304	0-10
40	26,0	3/151-05-0304	0-10
50	50,0	3/151-06-0304	0-10



Type	3/151-01	3/151-02	3/151-03	3/151-04	3/151-05	3/151-06
DN	15	20	25	32	40	50
B	130	130	130	161	161	218
F1	66	66	70	108	108	127
H	160	160	160	208	213	263
Inst. length	130	150	160	180	200	230
kg	3,6	4,4	4,9	9,0	9,0	15,0

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since , in addition to high temperatures , high pressures and high flow rates must also be taken into account when selecting the materials.

All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.

Stand: 06.18, MK-MG, Version 1.

Technical Data Sheet Type 78

3/2-way pressure operated valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)
DW - Valve with double acting actuator (as option)

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

- **Valve for clean, gaseous and liquid media**

Type 78

TECHNICAL SPECIFICATIONS

Type of control	Direct-pressure operated
Design	Poppet design
Connection	Threaded G1/2 - G2 DIN ISO 228/1
Installation	Preferable with actuator upright
Pressure	0 - 40 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	600 mm²/s
Temperature range	Medium: -40 °C up to +200 °C Ambient: -10 °C up to +60 °C
Body material	Red brass RG5 (PN16) Stainless steel 1.4571 (only G1/2) Stainless steel 1.4408 (PN40)
Metallic inner parts	Brass and stainless steel
Sealing	PTFE
Pilot pressure	4 - 10 bar max pressure with at least 6 bar
Pilot medium	Clean and neutral gases Other pilot media on request

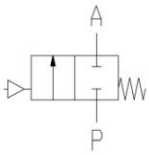
Pilot valve	**2/131-31-1702-C182**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Aluminum / Stainless steel / FKM with Cnomo-coil as well as with integrated screw connection for easy assembly
	A7231/1002/....
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

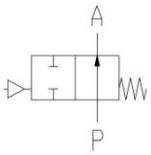
- No pressure difference required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts
- NO - non-pressurized open as option
- DW - double acting as option

FUNCTION

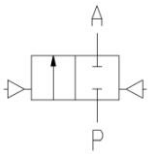
NC – non pressurized closed



NO – non pressurized open



DW - double acting



CERTIFICATES

ORDERING SYSTEM

Type		Conn.		Housing	Seal		Actuator				Option	
.	7	8	2 3	/ 1	1	0 4	/ 7	0	0 8	-	H	A

Conn.	
23	G 1/2
24	G 3/4
25	G 1
26	G 1 1/4
27	G 1 1/2
28	G 2

Housing	
08	Stainl. st. 1.4408
11	Red brass RG5

Seal	
04	PTFE

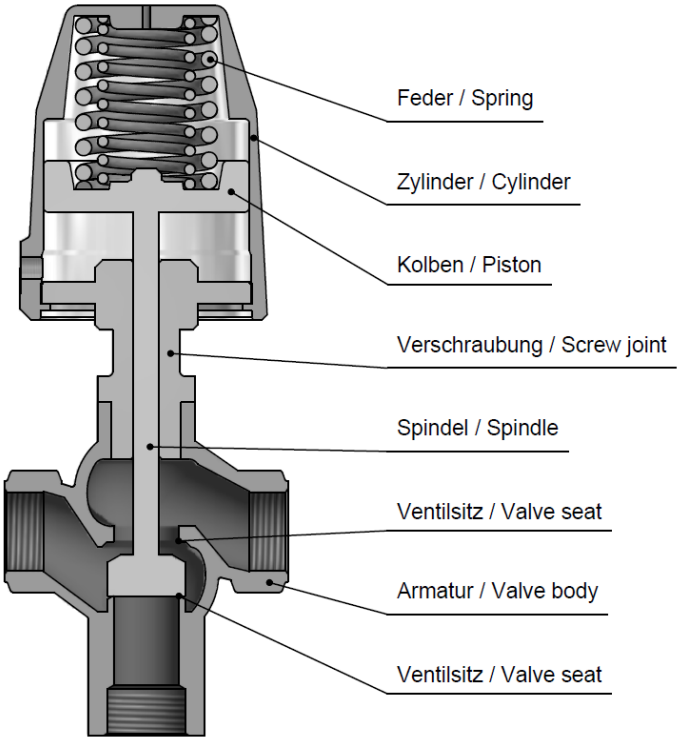
Actuator	
7 .	Normally closed
8 .	Normally open
9 .	Double acting
. 0	Standard actuator
. 3	Act. Stainless steel
. 5	Act. chem. nickel pl.

Option	
. 5	50 mm
. 8	80 mm
. 3	125 mm

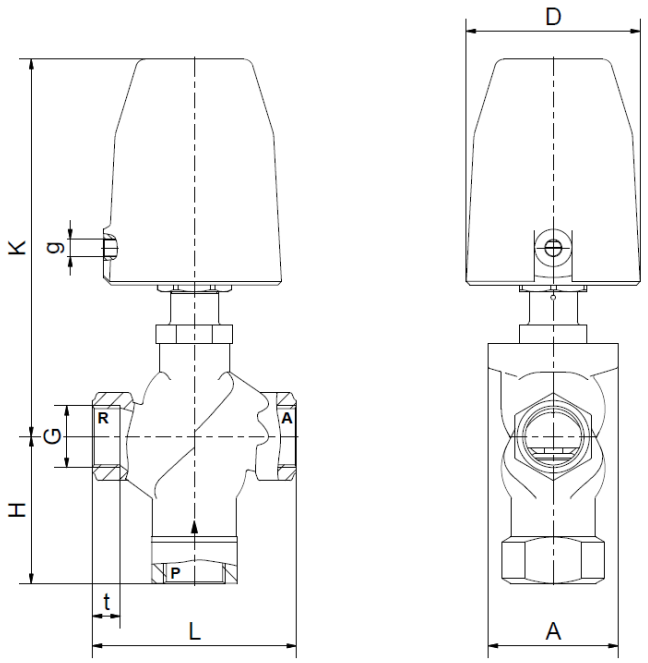
TECHNICAL FEATURES

					max. pressure with actuator					
		Kv-value m³/h			7.05		7.08		7.13	
G	Seat Ø mm	R-A	P-A	Standard type	Red brass	St.steel	Red brass	St.steel	Red brass	St.steel
1/2	18	3,8	5,0	.7823/..04/	0-12	0-12	0-16	0-40	-	-
3/4	20	6,2	8,3	.7824/..04/	0-9	0-9	0-16	0-25	-	0-40
1	25	10,1	14,4	.7825/..04/	0-5	0-5	0-16	0-16	-	0-40
1 1/4	32	15,1	19,6	.7826/..04/	-	-	0-8	0-8	0-16	0-16
1 1/2	40	21,8	30,0	.7827/..04/	-	-	0-5	0-5	0-9	0-9
2	50	40,0	53,0	.7828/..04/	-	-	0-2	0-2	0-5	0-5

					max. pressure with actuator UN					
		Kv-value m³/h			7.05-UN		7.08-UN		7.13-UN	
G	Seat Ø mm	R-A	P-A	Standard type	Red brass	St.steel	Red brass	St.steel	Red brass	St.steel
1/2	18	3,8	5,0	.7823/..04/	0-8	0-8	0-16	0-40	-	-
3/4	20	6,2	8,3	.7824/..04/	0-6	0-6	0-16	0-25	-	0-40
1	25	10,1	14,4	.7825/..04/	0-3	0-3	0-10	0-10	-	0-40
1 1/4	32	15,1	19,6	.7826/..04/	-	-	0-6	0-6	0-12	0-16
1 1/2	40	21,8	30,0	.7827/..04/	-	-	0-4	0-4	0-9	0-9
2	50	40,0	53,0	.7828/..04/	-	-	0-2	0-2	0-5	0-5



DIMENSIONS



Red brass body												
Act.	7.05			7.08						7.13		
Type	7823	7824	7825	7823	7824	7825	7826	7827	7828	7826	7827	7828
G	1/2	3/4	1	1/2	3/4	1	1 1/4	1 1/2	2	1 1/4	1 1/2	2
A	75	70	70	75	70	70	70	76	88	70	76	88
D	62	62	62	94	94	94	94	94	94	141	141	141
H	73	70	79	73	70	79	77	81	92	77	81	92
K	150	158	167	196	204	204	209	212	212	322	325	325
L	100	100	110	100	100	110	120	130	150	120	130	150
g	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4
t	13	14	15	13	14	15	15	15	18	15	15	18
kg	2,3	2,4	2,9	2,5	2,6	3,2	3,8	4,5	5,8	6,5	6,9	8,5

Stainless steel body												
Act.	7.05			7.08						7.13		
Type	7823	7824	7825	7823	7824	7825	7826	7827	7828	7826	7827	7828
G	1/2	3/4	1	1/2	3/4	1	1 1/4	1 1/2	2	1 1/4	1 1/2	2
A	54	70	70	54	70	70	96	96	112	96	96	112
D	62	62	62	94	94	94	94	94	94	141	141	141
H	33/59	67	69	33/59	67	69	85	85	102	85	85	102
K	177	148	148	223	194	194	202	202	210	296	296	304
L	69	96	96	69	96	96	140	140	168	140	140	168
g	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4
t	14	16	16	14	16	16	22	22	22	22	22	22
kg	3,4	2,5	2,8	3,6	2,7	3,1	4,5	4,2	4,5	7,5	7,3	8,8

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since , in addition to high temperatures , high pressures and high flow rates must also be taken into account when selecting the materials.

All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.

Stand: 06.19, MK-MG, Version 1.

Technical Data Sheet Type 79

3/2-way pressure operated valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)
DW - Valve with double acting actuator (as option)

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

- **Valve for clean, gaseous and liquid media**

Type 79

TECHNICAL SPECIFICATIONS

Type of control	Direct-pressure operated
Design	Poppet design
Connection	Flanged DN15 - DN150 EN 1092-1 Form B1/B2
Installation	Preferable with actuator upright
Pressure	0 - 16 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	400 mm²/s
Temperature range	Medium: -40 °C up to +200 °C Ambient: -10 °C up to +60 °C
Body material	Spheroidal graphite EN-GJS-400-18-LT Cast iron EN-GJL-250 Cast steel GP240 GH
Metallic inner parts	Brass and Stainless steel
Sealing	NBR, PTFE
Pilot pressure	4 - 10 bar max pressure with at least 6 bar
Pilot medium	Clean and neutral gases Other pilot media on request

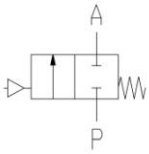
Pilot valve	**2/131-31-1702-C182**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Aluminum / Stainless steel / FKM with Cnomo-coil as well as with integrated screw connection for easy assembly
	A7231/1002/....
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

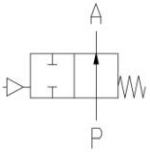
- No pressure difference required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts
- NO - non-pressurized open as option
- DW - double acting as option

FUNCTION

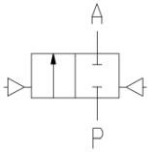
NC – non pressurized closed



NO – non pressurized open



DW - double acting



CERTIFICATES

ORDERING SYSTEM

Type		Conn.		Housing	Seal		Actuator				Option	
.	7	9	0	3	/ 0	4	0	1	/ 7	0	1	3	-	H	A

Conn.	
01	DN15
02	DN20
03	DN25
04	DN32
05	DN40
06	DN50
07	DN65
08	DN80
09	DN100
10	DN125
11	DN150

Housing	
03	EN-GJS-400-18-LT
04	EN-GJL-250
05	GP240 GH

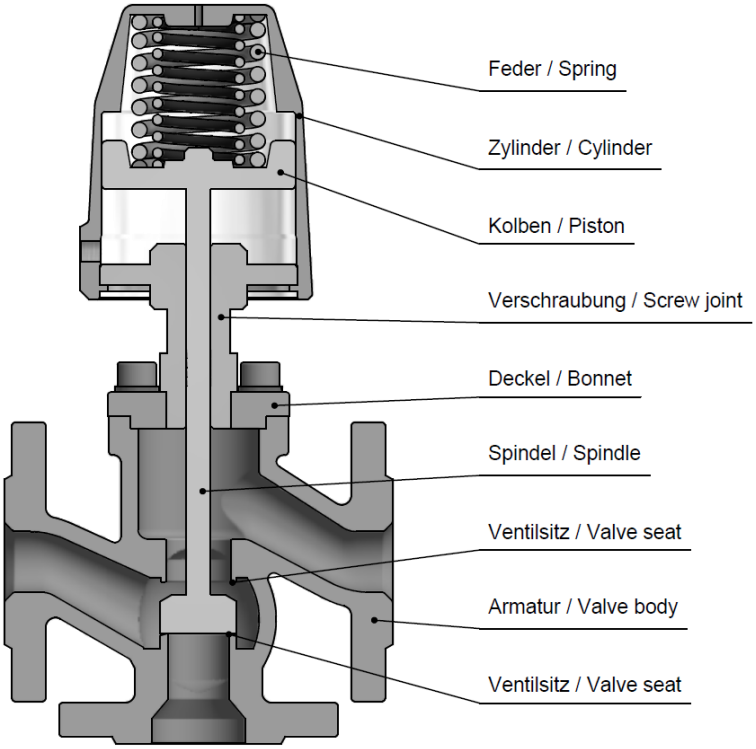
Seal	
01	NBR
04	PTFE

Actuator	
7 .	Normally closed
8 .	Normally open
9 .	Double acting
. 0	Standard actuator
. 3	Act. Stainless steel
. 5	Act. chem. nickel pl.

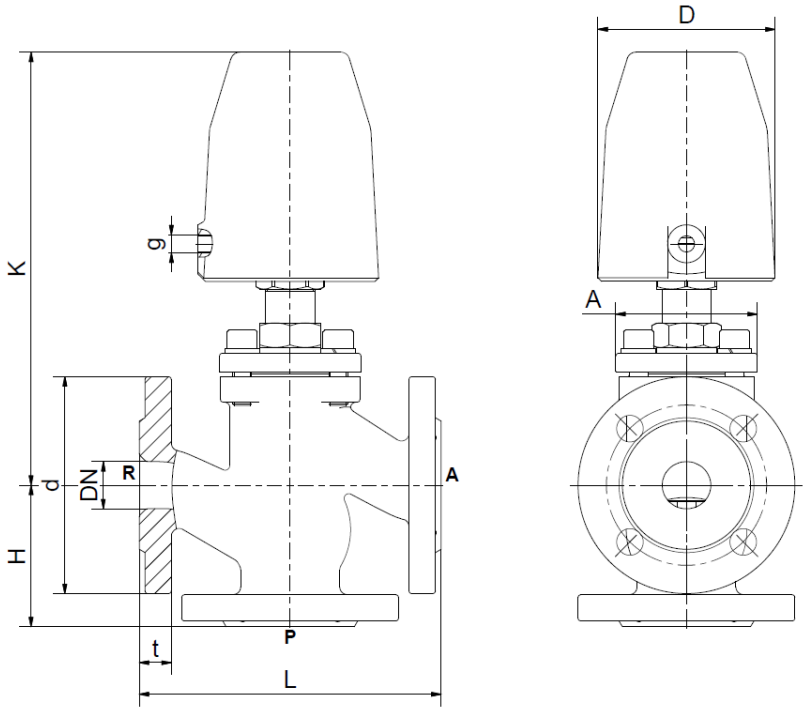
Option	
. 5	50 mm
. 8	80 mm
. 3	125 mm

TECHNICAL FEATURES

				max. pressure with actuator					
				7.05		7.08		7.13	
DN	Seat Ø mm	Kv-value m³/h	Standard type	NC	UN	NC	UN	NC	UN
15	21	6,8	.7901/0501/	0-5	0-4	0-16	0-12	-	-
20	21	8,8	.7902/..01/	0-5	0-4	0-16	0-12	-	-
25	27	11,5	.7903/..01/	0-3	0-3	0-14	0-8	0-16	0-16
32	31	18,0	.7904/..01/	-	-	0-9	0-8	0-16	0-16
40	41	26,0	.7905/..01/	-	-	0-3	0-3	0-16	0-16
50	51	38,0	.7906/..01/	-	-	0-2	0-2	0-16	0-16
65	66	62,0	.7907/..01/	-	-	-	-	0-16	0-15
80	80		.7908/..01/	-	-	-	-	0-10	0-10
100	100		.7909/..01/	-	-	-	-	0-10	0-10
125	125		.7910/..01/	-	-	-	-	0-8	0-8
150	150		.7911/..01/	-	-	-	-	0-8	0-8



DIMENSIONS



Actuator	7.05			7.08					
Type	.7901	.7902	.7903	.7901	.7902	.7903	.7904	.7905	.7906
DN	15	20	25	15	20	25	32	40	50
A	75	75	75	75	75	75	75	90	100
d	95	105	115	95	105	115	140	150	165
D	62	62	62	94	94	94	94	94	94
H	65	70	75	65	70	75	75	90	100
K	205	205	196	226	226	230	255	265	260
L	130	150	160	130	150	160	180	200	230
g	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
t	14	16	17	14	16	17	18	19	21
kg	4,5	5,5	6,7	4,8	6,0	7,0	10,0	12,5	15,0

Actuator	7.13								
Type	.7903	.7904	.7905	.7906	.7907	.7908	.7909	.7910	.7911
DN	25	32	40	50	65	80	100	125	150
A	75	75	90	100	112	136	195	235	295
d	115	140	150	165	185	200	220	270	300
D	141	141	141	141	141	141	141	141	141
H	75	75	90	100	120	130	150	200	300
K	315	340	360	370	390	415	430	470	460
L	160	180	200	230	290	310	350	400	480
g	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
t	17	18	19	21	22	24	25	26	28
kg	10,0	12,5	16,5	18,5	26,5	34,0	48,0	77,0	134,0

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since , in addition to high temperatures , high pressures and high flow rates must also be taken into account when selecting the materials.

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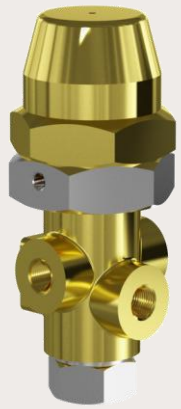
Stand: 08.17, MK-MG, Version 1.



Technical Data Sheet Type 2/292

3/2-way pressure operating valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)
UN - Universal design (as option)

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

- **Valve for clean, gaseous and liquid media**

GSR Ventiltechnik

Type 2/292

TECHNICAL SPECIFICATIONS

Type of control	Direct pressure operated
Design	Poppet design
Connection	Threaded G1/4 DIN ISO 228/1
Installation	Preferable with actuator upright
Pressure	0 - 80 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. viscosity	22 mm²/s
Temperature range	Medium: -10 °C up to +80 °C Ambient: -10 °C up to +60 °C
Body material	Brass 2.0402 Stainless steel 1.4571
Metallic inner parts	Brass and stainless steel
Sealing	FKM
Pilot pressure	4 - 10 bar max pressure with at least 6 bar
Pilot medium	Clean and neutral gases Other pilot media on request

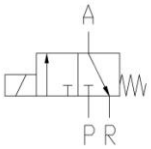
Pilot valve	**A7231/1002/....**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM
Screw connection	Brass G1/8 x M5 (B0009.001074)

VALVE FEATURES

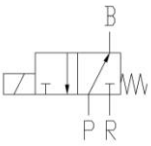
- No pressure difference required
- High life time
- Simple compact valve design
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

NC – non energized closed



NO – non-energized open



CERTIFICATES

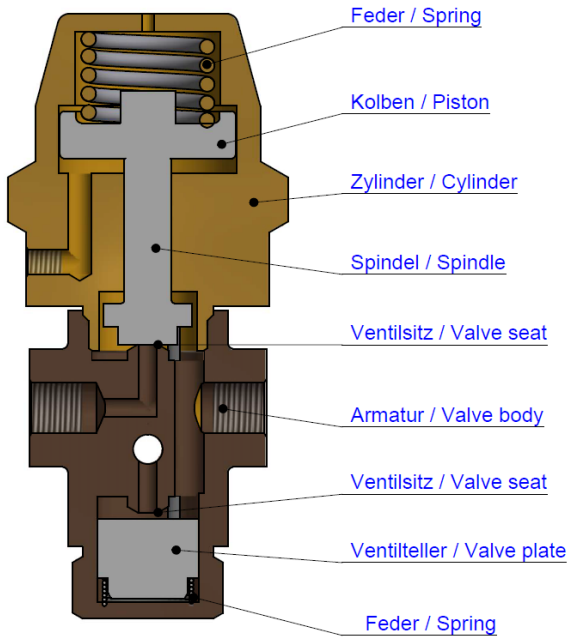
ORDERING SYSTEM

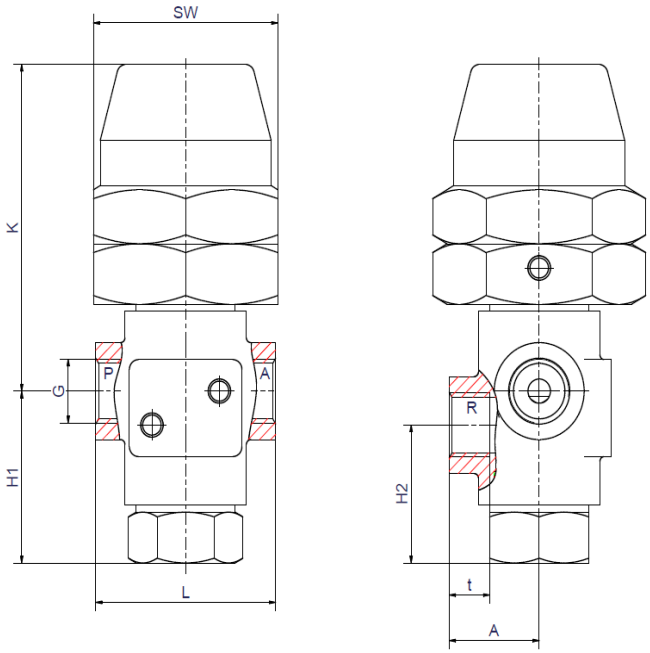
Type					Connect.		Housing	Seal		Actuator		
2	/	2	9	2	-	4 5	-	1 0	0 2	-	7 0	0 3
					4 . G 1/4 . 4 3,0 mm . 5 4,0 mm . 6 5,0 mm		08 St. steel 1.4571 10 Brass 2.0401	02 FKM		7 . Normally closed 8 . Normally open	. 3 30 mm	

TECHNICAL FEATURES

Type 2/292

				max. pressure with actuator		
G	Seat Ø mm	Kv-value m³/h	Standard type	7003 (NC)	8003 (NO)	7003-UN
1/4	3,0	0,2	2/292-44-1002-	0-80	0-80	0-40
1/4	4,0	0,35	2/292-45-1002-	0-60	0-60	0-30
1/4	5,0	0,5	2/292-46-1002-	0-40	0-40	0-20





	Brass	Stainless steel
Type	2/292-4.-1002-7003	2/292-4.-0802-7003
G	1/4	1/4
A	20	20
SW	41	41
H1	35,5	35,5
H2	28,5	28,5
K	67,5	67,5
L	40	40
t	9	10
kg	0,7	0,9

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **Detailed production-specific drawings and other technical information will be made available when an order is placed**

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Stand: 11.17, MK-MG, Version 1.