

PROPORTIONAL VALVES 4R

G

S

R[®]



2/2-way dosing valve

Pressure operated dosing valve with electro-pneumatic positioner for dosing applications

■ Dosing valve for gaseous and liquid media

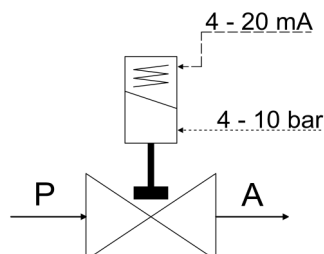
TECHNICAL SPECS CONTROLLER

Supply voltage:	24 VDC
Voltage tolerance:	-5% / +10%
Power consumption:	100 mA
Power:	2,4 Watt
Input signal:	4-20 mA (basic setting) optional 0-10 V (selectable by menu)
Output signal:	According to the input signal (selectable independent to the input signal)
Protection class:	IP65 acc. to DIN 60529
Connection of control	G 1/8
Control medium:	Clean and neutral gases
Control pressure:	4 - 10 bar
Quality:	Compressed air class 3 (Medium quality acc. to ISO 8573-1)

VALVE FEATURES

- Ideal for continuous media control
- Even in higher temperature ranges
- High dosing accuracy
- High control accuracy
- Three safety-setting-options: (open/closed/remain)
- No additional electronics required for adjustment
- CE acc. to EMV DIN EN 61000
- ROHS
- Reverse polarity protection

FUNCTION



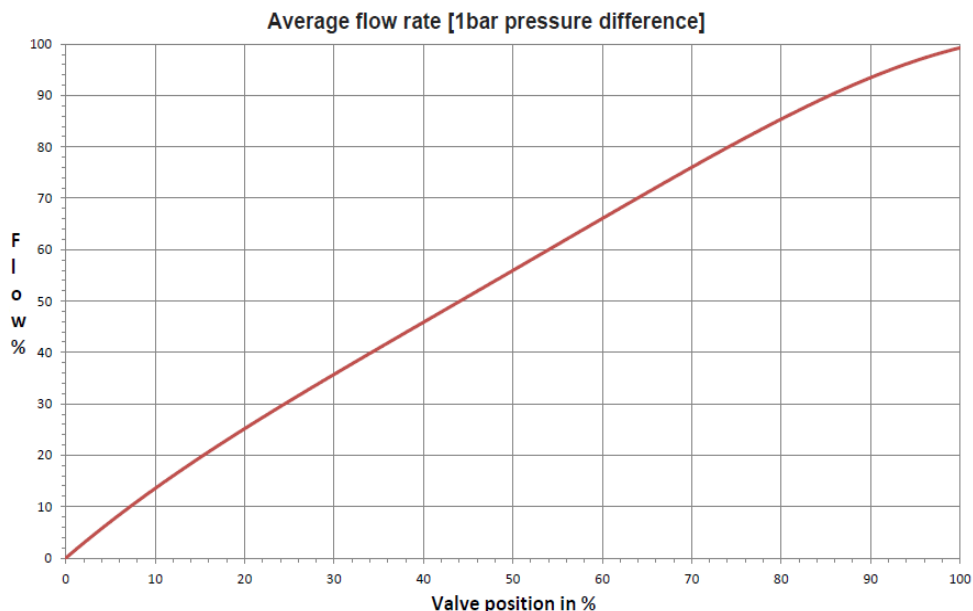
CONTROL BEHAVIOR

Acquisition range:	0 - 23 mm
Resolution:	0,5% o. max. stroke
Repeat accuracy:	> 99%
Hysteresis:	< 1%
Responsiveness:	< 1%

The characteristic curve shown is valid for all nominal sizes and series.

The corresponding Kv values are shown in the table of the specific valve.

Characteristic determined according to VDI-VDE 2173



Type 63-4R—ANGLE SEAT VALVES

TECHNICAL FEATURES



Type of control:	Pressure operating dosing valve
Design:	Seat valve with cone-type piston
Connection:	Threaded G 1/4 - G 2 DIN ISO 228 (BSP) <i>Further connections like NPT on request</i>
Installation:	Preferable with actuator upright
Pressure range:	0 - 40 bar
Medium:	Clean, neutral, liquid or gaseous

Viscosity:	600 mm ² /s
Temperature range:	Medium -40 °C bis +200 °C Ambient -10 °C bis +60 °C
Body material:	Red brass RG5 Stainless steel 1.4408
Metallic inner	Brass and stainless steel
Sealing:	PTFE

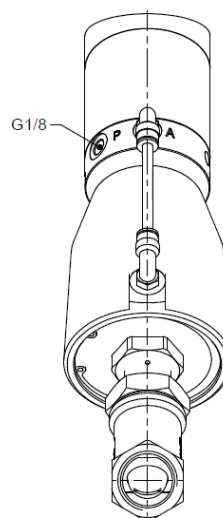
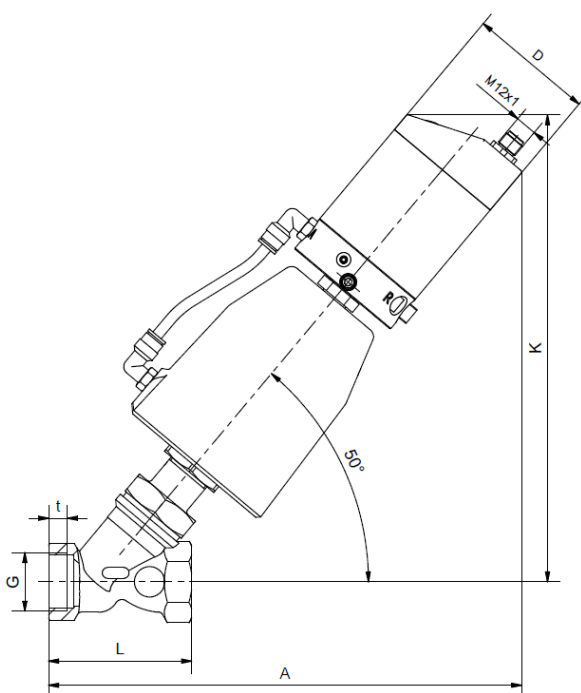
Version with red brass body

G	Type	Actuator	Seat mm	Pressure bar	Kv-value in m ³ /h at opening in %				
					10%	25%	50%	75%	100%
1/2	.6323/1104/	71.5-4R	12,5	0-16	0,6	1,4	2,4	3,2	3,6
3/4	.6324/1104/	7115-4R	16,0	0-16	0,6	1,2	1,8	2,3	2,6
1	.6325/1104/	7115-4R	23,5	0-10	0,3	0,8	1,4	2,0	2,4
		7158-4R		0-16	0,8	2,1	3,9	5,4	6,2
1 1/4	.6326/1104/	7158-4R	31,0	0-12	8,6	13,9	16,3	18,0	18,6
		7163-4R		0-16	on req.	on req.	on req.	on req.	on req.
1 1/2	.6327/1104/	7158-4R	35,0	0-8	10,7	17,1	21,0	24,0	25,0
		7163-4R		0-16	10,7	18,0	22,2	24,3	26,1
2	.6328/1104/	7158-4R	45,0	0-5	11,0	18,8	24,5	27,0	29,5
		7163-4R		0-16	16,5	25,4	30,0	33,0	34,5

Version with stainless steel body

G	Type	Actuator	Seat mm	Pressure bar	Kv-value in m ³ /h at opening in %				
					10%	25%	50%	75%	100%
1/2	.6323/0804/	75.5-4R	12,5	0-40	0,6	1,2	1,9	2,6	3,0
3/4	.6324/0804/	7515-4R	18,0	0-20	1,5	2,5	3,8	4,5	4,8
1	.6325/0804/	7515-4R	23,5	0-10	1,5	2,5	3,8	4,7	5,4
		7158-4R		0-22	3,4	6,1	8,8	9,7	10,3
1 1/4	.6326/0804/	7158-4R	31,0	0-12	4,5	9,7	13,7	15,4	16,6
		7163-4R		0-40	8,2	14,6	17,3	18,2	18,7
1 1/2	.6327/0804/	7158-4R	35,0	0-8	8,7	16,6	21,6	23,4	24,6
		7163-4R		0-30	10,8	18,9	22,3	23,6	24,7
2	.6328/0804/	7158-4R	45,0	0-5	4,5	9,5	15,3	18,5	21,5
		7163-4R		0-20	7,7	15,5	21,5	24,7	27,0

Type 63-4R—ANGLE SEAT VALVES DIMENSIONS



Actuator	7..5			7.58				7.63		
Type	.6323	.6324	.6325	.6325	.6326	.6327	.6328	.6326	.6327	.6328
G	1/2	3/4	1	1	1 1/4	1 1/2	2	1 1/4	1 1/2	2
A	227	229	232	264	273	280	290	315	320	332
D	70	70	70	70	70	70	70	70	70	70
K	219	220	222	260	265	271	280	315	322	330
L [RG5]	66	75	80	80	97	107	124	97	107	124
L [1.4408]	65	75	90	90	110	120	150	110	120	150
t [RG5]	13	14,5	10,5	10,5	12,5	14,5	16,5	12,5	14,5	16,5
t [1.4408]	12	13	15	15	17	19	21	17	19	21
kg	1,9	2,0	2,0	2,8	3,1	3,3	3,9	6,4	6,9	7,2

ORDERING CODE

. 6 3	2 3	/	0 8	0 4	/	7 5	1 5	-	4 R
Type	Connection		Body material	Seal material		Actuator	Actuator size		Valve options
23	G 1/2		08 St. steel 1.4408	04 PTFE		71 Standard	15 50 mm		4R Positioner
24	G 3/4		11 Red brass RG5			75 chem. nickel pl.	55 50 mm		
25	G 1						58 80 mm		
26	G 1 1/4						63 125 mm		
27	G 1 1/2								
28	G 2								

Type 22-4R—FLANGED VALVES

TECHNICAL FEATURES



Type of control:	Pressure operating dosing valve	Viscosity:	600 mm ² /s
Design:	Seat valve with cone-type piston	Temperature range:	Medium -40 °C bis +200 °C Ambient -10 °C bis +60 °C
Connection:	Flanged DN15 - DN100 DIN EN 1092-1 Form B1/B2 <i>Further connections like ASME on request</i>	Body material:	Cast iron EN-GJL-250 Cast steel GP240 GH Stainless steel 1.4408
Installation:	Preferable with actuator upright	Metallic inner parts:	Brass and stainless steel
Pressure range:	0 - 40 bar	Sealing:	PTFE
Medium:	Clean, neutral, liquid or gaseous		

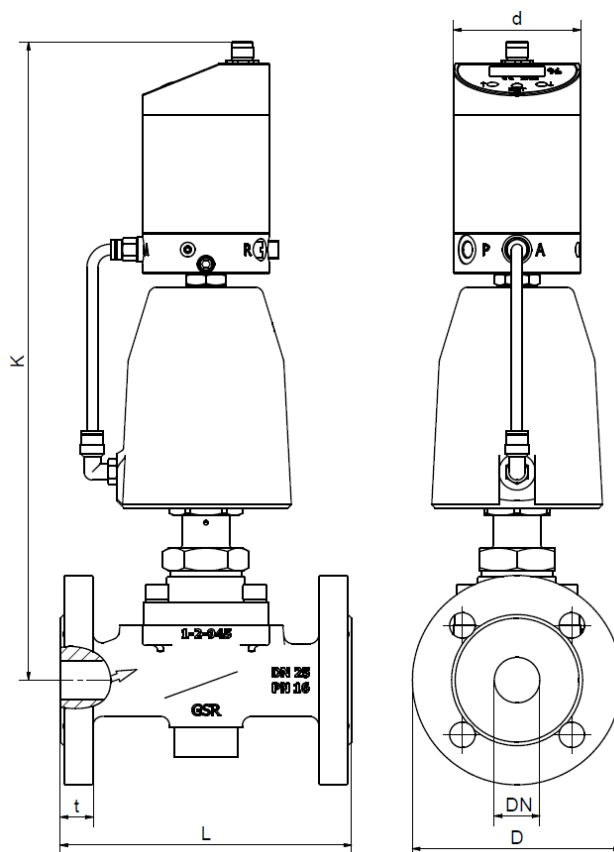
Version with cast iron body

DN	Type	Actuator	Seat mm	Pressure bar	Kv-Value in m ³ /h at opening in %				
					10%	25%	50%	75%	100%
20	.2202/0404/	7015-4R	20	0-7,5					
25	.2203/0404/	7015-4R 7058-4R	25	0-7,5 0-13					
32	.2204/0404/	7015-4R 7058-4R	32	0-1 0-6					
40	.2205/0404/	7015-4R 7058-4R	40	0-1 0-6					
50	.2206/0404/	7058-4R 7063-4R	50	0-4 0-13					
65	.2207/0404/	7058-4R 7063-4R	65	0-1 0-10					
80	.2208/0404/	7063-4R	80	0-5					
100	.2209/0404/	7063-4R	100	0-3					

Version with cast steel and stainless steel body

DN	Type	Actuator	Seat mm	Druck bar	Kv-Value in m ³ /h at opening in %				
					10%	25%	50%	75%	100%
15	.2201/0504/	7015-4R 7058-4R	15	0-12 0-40					
20	.2202/0504/	7015-4R 7058-4R	20	0-7,5 0-15					
25	.2203/0504/	7015-4R 7058-4R	25	0-7,5 0-15					
32	.2204/0504/	7015-4R 7058-4R	32	0-1 0-6					
40	.2205/0504/	7015-4R 7058-4R	40	0-1 0-6					
50	.2206/0504/	7058-4R 7063-4R	50	0-4 0-16					
65	.2207/05(08)04/	7058-4R 7063-4R	65	0-1 0-10					
80	.2208/05(08)04/	7063-4R	80	0-5					
100	.2209/05(08)04/	7063-4R	100	0-3					

Type 22-4R—FLANGED VALVES DIMENSIONS



Actuator	7015-4R					7058-4R							7063-4R	
Type	2201	2202	2203	2204	2205	2201	2202	2203	2204	2205	2206	2207	2208	2209
DN	15	20	25	32	40	15	20	25	32	40	50	65	80	100
d	70	70	70	70	70	70	70	70	70	70	70	70	70	70
D	95	105	115	140	150	95	105	115	140	150	165	185	200	220
K	229,5	239,5	249,5	274,5	284,5	229,5	239,5	249,5	274,5	284,5	299,5	319,5	334,5	369,5
L	130	150	160	180	200	130	150	160	180	200	230	290	310	350
t	16	18	18	18	18	16	18	18	18	18	20	20	25	25
kg	4,0	4,2	6,0	8,7	9,2	4,3	5,6	6,2	8,8	9,4	12,6	16,4	25,4	40,0

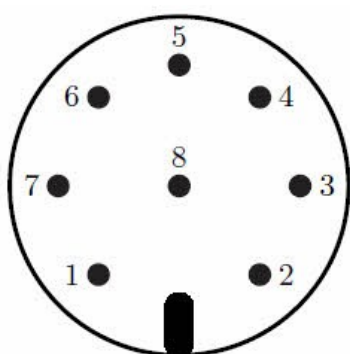
ORDERING CODE

. 2 2		0 6		/	0 5		0 4		/	7 5		6 3		-	4 R	
Type		Connection			Body material		Seal material			Actuator		Actuator size			Valve options	
		01 DN15			04 EN-GJL-250		04 PTFE			71 Standard		15 50 mm			4R Positioner	
		02 DN20			05 GP240 GH					75 Nickel plated		55 50 mm				
		03 DN25			08 St. steel 1.4408							58 80 mm				
		04 DN32										63 125 mm				
		05 DN40														
		06 DN50														
		07 DN65														
		08 DN80														
		09 DN100														

INFORMATIONEN

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- 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.

ELECTRICAL CONNECTION



Pin 1 = white	Outlet 2	0-5 VDC - digital / constant
Pin 2 = brown	Supply voltage	24 VDC
Pin 3 = green	Ground	0 V
Pin 4 = yellow	Input signal	0-10 VDC
Pin 5 = gray	Output signal	0-10 VDC
Pin 6 = pink	Output 1	0-5 VDC - digital / constant
Pin 7 = blue	Input signal	4-20 mA
Pin 8 = red	Output signal	4-20 mA

Note:

The connected cable to the positioner must not be longer than 30 meters.

Pease 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.

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