

# Pneumatically actuated ball valves





ur connection and female

Warning: With high media temperatures the actuator must be protected by a thermal bridge!

### Ball valves with pneumatic rotary actuators

up to 40 bar

PN 63

Materials: Housing: Brass nickel-plated, ball: Brass hard chrome-plated, seal: PTFE/FKM
Length according to DIN 3202-M3 (G 1/2" - G 2"), DVGW approval for G 1/2" - G 2" (PN 5/MOP 5)
Temperature range: -20°C to max. +160°C (G 2 1/2" - G 4": max. +120°C), gas: -20°C to max. +60°C
Operating range: Water, oil, compressed air, vacuum (max. -0.9 bar), fuels, heating oil, solvents, weak acids and alkalis, G 1/2" - G 2": Gases in accordance with DVGW worksheet (such as natural gas, city gas, liquid gas up to 5 bar) Rotary actuator

Design: ATEX-compliant Ŵ II 2GD c 85°C (Actuators with size 12 or greater: Ŵ II 2GD c 110°C) Materials: Housing: Aluminium anodised, gear rack and piston: Aluminium, cover: Acetal resin, seal: NBR Temperature range: -20°C to max. +80°C

Control pressure: 6 - 10 bar (lower pressures upon request)

Optional: FKM seal -V

Type → T	Type M	Type W	Thread	Install. length			Actuator	Actuator size*	
double acting	spring closing	spring opening	ball valve	DN	ball valve	PN	Double ac	t. Single act.	
KH 14 P	KH 14 P FS	KH 14 P FO	Rp 1/4"	10	67	40 bar	1	2-F03	
KH 38 P	KH 38 P FS	KH 38 P FO	Rp 3/8"	14	67	40 bar	1	2-F03	
KH 12 P	KH 12 P FS	KH 12 P FO	G 1/2"	15	75	40 bar	1	2-F03	
KH 34 P	KH 34 P FS	KH 34 P FO	G 3/4"	20	80	40 bar	1	2-F03	
KH 10 P	KH 10 P FS	KH 10 P FO	G 1"	25	90	40 bar	1	2-F03	
KH 114 P	KH 114 P FS	KH 114 P FO	G 1 1/4"	32	110	40 bar	6-VK11	6-VK11	
KH 112 P	KH 112 P FS	KH 112 P FO	G 1 1/2"	40	120	40 bar	6-VK11	6-VK11	
KH 20 P	KH 20 P FS	KH 20 P FO	G 2"	50	140	40 bar	6	6	
KH 212 P	KH 212 P FS	KH 212 P FO	G 21/2"	65	165	30 bar	6	12-F07-VK14	
KH 30 P	KH 30 P FS	KH 30 P FO	G 3"	76	188	25 bar	12-F07-VK14	12-F07-VK14	
KH 40 P	KH 40 P FS	KH 40 P FO	Rp 4"	90	200	20 bar	25-F07-VK14	25-F07-VK14	

for dimensions and replacement actuators see page 310

Materials: Housing: AISI 316, ball: AISI 316, seal: PTFE (15% GF)/FKM Length according to DIN 3202-M3

Temperature range: -20°C to max. +180°C

Operating range: Water, oil, compressed air, vacuum (max. -0.9 bar), fuels, solvents, aggressive media

Optional: Welding ends -AS, certificate 3.1

Stainless steel ball valves, 3-piece, with pneumatic rotary actuators

Rotary actuator

Design: ATEX-compliant Design: ATEX-compliant

Optional: FKM seals -V



Warning: With high media temperatures the actuator must be protected by a thermal bridge!





Type →     †	Type ₩Ţ∏→	Type ₩∭‡ →	Thread		Install. leng	th Actua	Actuator size*	
double acting	spring closing	spring opening	ball valve	DN	ball valve	Double act.	Single act.	
KH 14 P ES	KH 14 P FS ES	KH 14 P FO ES	G 1/4"	10	60	1	2-F03	
KH 38 P ES	KH 38 P FS ES	KH 38 P FO ES	G 3/8"	12	60	1	2-F03	
KH 12 P ES	KH 12 P FS ES	KH 12 P FO ES	G 1/2"	15	75	1	2-F03	
KH 34 P ES	KH 34 P FS ES	KH 34 P FO ES	G 3/4"	20	80	1	2-F03	
KH 10 P ES	KH 10 P FS ES	KH 10 P FO ES	G 1"	25	90	2	6-F04	
KH 114 P ES	KH 114 P FS ES	KH 114 P FO ES	G 1 1/4"	32	110	6-VK11	6-VK11	
KH 112 P ES	KH 112 P FS ES	KH 112 P FO ES	G 1 1/2"	40	120	6	12	
KH 20 P ES	KH 20 P FS ES	KH 20 P FO ES	G 2"	50	140	12	12	
KH 212 P ES	KH 212 P FS ES	KH 212 P FO ES	G 2 1/2"	65	185	12-F07	12-F07	
KH 30 P ES	KH 30 P FS ES	KH 30 P FO ES	G 3"	80	205	12-F07	25-F07	
KH 40 P ES	KH 40 P FS ES	KH 40 P FO ES	G 4"	100	240	50-F10	50-F10	
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for dimensions and replacement actuators see page 310

Order example: KH 38 P ES \*\* \*\* Standard type

Designation for the actuator options: FKM seal

Designation for the ball valve options

for Namur connection and female thread

Warning: With high media temperatures the actuator must be protected by a thermal bridge!



## High pressure ball valves with pneumatic rotary actuators

up to 500 bar

Materials: Housing: Zinc-plated steel, ball: Steel hard chrome-plated, ball seal: POM, selector shaft seal: NBR Temperature range: -20°C to max. +100°C (G 1 1/4" - G 2": -10°C to max. +80°C)

Operating range: Hydraulic oil, heating oil (water only after release by us)

Optional: Ball valve made of stainless steel AISI 316Ti -ES

Rotary actuator: See above

Type → T	Type ₩Ţ	Type ₩\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			Install. length	Actuator size*		
double acting	spring closing	spring opening	G	DN	ball valve	PN	Double act.	Single act.
KH 14 HD P	KH 14 HD P FS	KH 14 HD P FO	G 1/4"	6	69	500 bar	2-F03	2-F03
KH 38 HD P	KH 38 HD P FS	KH 38 HD P FO	G 3/8"	10	72	500 bar	2-F03	2-F03
KH 12 HD P	KH 12 HD P FS	KH 12 HD P FO	G 1/2"	13	83	500 bar	2-F03	2-F03
KH 34 HD P	KH 34 HD P FS	KH 34 HD P FO	G 3/4"	20	95	420 bar	6	6
KH 10 HD P	KH 10 HD P FS	KH 10 HD P FO	G 1"	25	113	315 bar	12	12
KH 114 HD P	KH 114 HD P FS	KH 114 HD P FO	G 1 1/4"	32	110	420 bar	12	12
KH 112 HD P	KH 112 HD P FS	KH 112 HD P FO	G 1 1/2"	40	130	420 bar	12	25
KH 20 HD P	KH 20 HD P FS	KH 20 HD P FO	G 2"	50	140	420 bar	25	25

\* for dimensions and replacement actuators see page 310

Order example: KH 14 HD P \*\*

Designation for the actuator options Standard type

All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C