

3-way ball valves with pneumatic rotary actuators

PN 40

Ball valve

Materials: Housing: Brass nickel-plated, ball: Brass hard chrome-plated, seal: PTFE/NBR

Temperature range: -10°C to max. +100°C

Properties: Pressure inlet is possible from all the three sides.

Operating range: Water, oil, compressed air, fuels, heating oil, solvents, weak acids and alkalis

Rotary actuator

Design: ATEX-compliant $\text{Ex II 2GD c 85}^\circ\text{C}$ (Actuators with size 12 or greater: $\text{Ex II 2GD c 110}^\circ\text{C}$)

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, direction of rotation changed -FO

TIP Connection diagram acc. to NAMUR, with female thread!



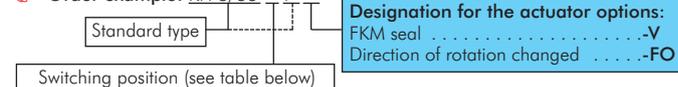
for Namur connection and female thread

Warning: In case of high media temperatures, the actuator must be cooled!

Type $\rightarrow \leftarrow$	Type $\leftarrow \rightarrow$	Thread ball valve	DN	Installation length ball valve	Actuator size*	
double acting	single acting				Double act.	Single act.
KH 3/14 ** P	KH 3/14 ** PE	G 1/4"	10	76	1	2-F03
KH 3/38 ** P	KH 3/38 ** PE	G 3/8"	10	78	1	2-F03
KH 3/12 ** P	KH 3/12 ** PE	G 1/2"	10	82	1	2-F03
KH 3/34 ** P	KH 3/34 ** PE	G 3/4"	15	90	2-F03	2-F03
KH 3/10 ** P	KH 3/10 ** PE	G 1"	20	106	6-VK11	6-VK11
KH 3/114 ** P	KH 3/114 ** PE	G 1 1/4"	25	120	6-VK11	6-VK11
KH 3/112 ** P	KH 3/112 ** PE	G 1 1/2"	32	142	6	12
KH 3/20 ** P	KH 3/20 ** PE	G 2"	40	165	12	12

* for dimensions and replacement actuators see page 310, ** please indicate switching position. See table below (standard position L or T1)

Order example: KH 3/38 ** P **



Stainless steel 3-way ball valves with pneumatic rotary actuators

PN 63

Ball valve

Materials: Housing: AISI 316, ball: AISI 316, seal: PTFE (15% GF)/FKM

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

Properties: Pressure inlet is possible from all the three sides

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

Optional: Certificate 3.1

Rotary actuator

Design: ATEX-compliant $\text{Ex II 2GD c 85}^\circ\text{C}$ (Actuators with size 12 or greater: $\text{Ex II 2GD c 110}^\circ\text{C}$)

Materials: Housing: Aluminium anodised, gear rack and piston: Aluminium, cover: Acetal resin, seals: NBR

Temperature range: -20°C to max. +80°C

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

Optional: FKM seals -V, direction of rotation changed -FO

TIP Connection diagram acc. to NAMUR, with female thread!



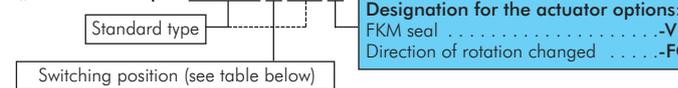
for Namur connection and female thread

Warning: In case of high media temperatures, the actuator must be cooled!

Type $\rightarrow \leftarrow$	Type $\leftarrow \rightarrow$	Thread ball valve	DN	Installation length ball valve	Actuator size*	
double acting	single acting				Double act.	Single act.
KH 3/14 ** P ES	KH 3/14 ** PE ES	G 1/4"	11	79	2-F03	2-F03
KH 3/38 ** P ES	KH 3/38 ** PE ES	G 3/8"	12	79	2-F03	2-F03
KH 3/12 ** P ES	KH 3/12 ** PE ES	G 1/2"	12	79	2-F03	2-F03
KH 3/34 ** P ES	KH 3/34 ** PE ES	G 3/4"	15	88	2-F03	6-F04-VK9
KH 3/10 ** P ES	KH 3/10 ** PE ES	G 1"	20	108	6-VK11	6-VK11
KH 3/114 ** P ES	KH 3/114 ** PE ES	G 1 1/4"	25	124	6-VK11	6-VK11
KH 3/112 ** P ES	KH 3/112 ** PE ES	G 1 1/2"	32	135	6	12
KH 3/20 ** P ES	KH 3/20 ** PE ES	G 2"	40	164	12	25

* for dimensions and replacement actuators see page 310, ** please indicate switching position. See table below (standard position L or T1)

Order example: KH 3/38 ** P ES **



Position	Standard		Option -FO	L borehole	T borehole			
	activated	non activated	activated					
Position	activated	non activated	activated					
	non activated	activated	activated					
Switching position				L	T1	T2	T3	T4

Repair sets & ball valves with assembly flange from page 309

NAMUR valves and NAMUR throttles on page 416

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.