

Valves & Actuators

Product Overview



Including LONMARK[®]
compliant actuators

Technical Data – Valves

Valve type	PN rate	Port connection	Valve size DN (mm)	k _{vs} value (m ³ /h)	Temperature range (°C)	Suitable medium		Flow characteristic *1	Action *2	Leakage rate (% of k _{vs})	Stroke (mm)/angle of rotation (°)	Valve body material	Valve trim / disc material (seat; plug; stem)
						Water with max. 50 % glycol	Steam						

Small Linear Valves													
2-way													
V5822A...	16	conical sealing	15/20	0.16...4.0 *3	2...120	●		E	D	≤ 0.02	6.5 *4	yellow brass	br-br-ss
V5832A...	16	flat sealing	15/20	0.16...4.0 *3	2...120	●		E	D	≤ 0.02	6.5 *4	yellow brass	br-br-ss
V5832B...	16	flat sealing	25...40	4.0...25.0	2...130	●		L	U	≤ 0.05	6.5 *4	yellow brass	br-br-ss
V5825B...	25	flat sealing	15...32	0.25...10.0	2...130	●	●	E	U	≤ 0.05	6.5 *4	red brass	ss-ss-ss
3-way													
V5823A...	16	conical sealing	15/20	0.25...4.0 *3	2...120	●		E for A-AB L for B-AB	U	≤ 0.02	6.5 *4	yellow brass	br-br-ss
V5833A...	16	flat sealing	15/20	0.25...4.0 *3	2...120	●		E for A-AB L for B-AB	U	≤ 0.02	6.5 *4	yellow brass	br-br-ss
V5833A...	16	flat sealing	25...40	4.0...25.0	2...130	●		L	U	≤ 0.05	6.5 *4	yellow brass	br-br-ss
3-way with bypass													
V5823C...	16	conical sealing	15/20	0.25...4.0 *3	2...120	●		E for A-AB L for B-AB	U	≤ 0.02	6.5 *4	yellow brass	br-br-ss
V5833C...	16	flat sealing	15/20	0.25...4.0 *3	2...120	●		E for A-AB L for B-AB	U	≤ 0.02	6.5 *4	yellow brass	br-br-ss

Large Linear Valves													
2-way													
V5011R...	16	internal thread	15...50	0.63...40	2...170	●		E	D	≤ 0.05	20	yellow brass	ss-br-ss
V5011S...	16	internal thread	15...50	0.63...40	2...170	●	●	E	D	≤ 0.05	20	yellow brass	ss-ss-ss
V5328A...	16	flanged	15...80	0.25...100	2...170	●	●	E	D	*5	20	cast iron (GG25)	ss-ss-ss
V5049A...	16	flanged	100...150	160...360	2...220	●	●	E	D	≤ 0.1	38	cast iron (GG25)	ss-ss-ss
V5016A...	16	flanged	15...150	0.25...360	2...180	●	●	E	D	≤ 0.05	*7	nodular iron (GGG40.3)	ss-ss-ss
V5025A...	25	flanged	15...150	0.4...360	2...200	●	●	E	D	≤ 0.05	*7	nodular iron (GGG40.3)	ss-ss-ss
V5049A...	40	flanged	15...100	0.25...160	2...220	●	●	E	D	*5	*6	cast steel (GS-C25)	ss-ss-ss
3-way													
V5013R...	16	internal thread	15...50	2.5...40	2...170	●		E for A-AB	U	≤ 0.05	20	yellow brass	br-br-ss
V5013E	16	external thread	15...50	2.5...40	2...170	●		L for B-AB	U	≤ 0.05	20	yellow brass	br-br-ss
V5329C...	6	flanged	15...80	2.5...100	2...170	●		E for A-AB L for B-AB	U	≤ 0.5 A-AB ≤ 1 B-AB	20	cast iron (GG25)	GG25-ss-ss
V5015A...	6	flanged	100...150	140...310	2...120	●		E for A-AB L for B-AB	U	≤ 0.1 A-AB ≤ 1 B-AB	38	cast iron (GG25)	GG25-ss-ss
V5329A...	16	flanged	15...80	2.5...100	2...170	●		E for A-AB L for B-AB	U	≤ 0.5 A-AB ≤ 1 B-AB	20	cast iron (GG25)	GG25-ss-ss
V5050A...	16	flanged	100...150	160...360	2...220	●		E for A-AB L for B-AB	U	≤ 0.1	38	cast iron (GG25)	ss-ss-ss
V5050A...	25/40	flanged	15...100	2.5...160	2...220	●		E for A-AB L for B-AB	U	≤ 0.1	*7	cast steel (GS-C25)	ss-ss-ss

Rotary Valves													
2-way													
V5421B	6/10/16	wafer	25...200	52...3093	-10...130	●			rotation	bubble tight	90	GGG40.4	GGG40
V5421C	10	wafer	40...600	52...24868	-10...130	●			rotation	bubble tight	90	GG25	GGG40
V5422L	10	wafer	250...400	4825...24868	-10...130	●			rotation	bubble tight	90	GG25	GGG40
V5422E	10	wafer	250...600	4825...24868	-10...130	●			rotation	bubble tight	90	GG25	GGG40
3-way													
V5431A	6	internal thread	15...40	4...25	2...130	●		E	rotation	< 1 %	90	cast iron	chrome plated
V5431F	6	flanges	20...150	6.3...630	2...130	●		E	rotation	< 1 %	90	cast iron	cast iron
V5433A	6	internal thread	20...50	2.5...40	2...110	●		E	rotation	< 1 %	90	cast iron	cast iron
V5434T+H	10	external thread	25...32	2.5...25	2...130	●		E	rotation	< 1 %	90	cast iron	cast iron
4-way													
V5441A	6	internal thread	15...40	4...25	2...130	●		E	rotation	< 1 %	90	cast iron	chrome plated
V5441F	6	flanges	25...200	10...630	2...130	●		E	rotation	< 1 %	90	cast iron	cast iron
V5442A	6	internal thread	20...32	4...16	2...110	●		E	rotation	< 1 %	90	cast iron	cast iron

*1 L = linear; E = equal percentage; 0 = on/off

*2 D = stem down to close; U = stem up to close

*3 for on/off valves kvs 1.6 and 2.5 only (V5822A...; V5823A...; V5823C...; V5832A...; V5833A...; V5833C...)

*4 for on/off valves 2.5 mm (V5822A...; V5823A...; V5823C...; V5832A...; V5833A...; V5833C...)

*5 ≤ 0.05 up to DN 50; ≤ 0.1 DN 65–80

*6 20 mm up to DN 65; 38 mm DN 80...150

*7 20 mm up to DN 80; 38 mm DN 100...150

ss = stainless steel

br = brass

Best choice

		Application							
Valve Type		Steam	Heating	Cooling	FCU	AHU	DH	High Dp	DHW
Small Linear Valves									
PN16	V582X DN15/20	-	+	+	+	-	-	-1)	o
PN16	V583X DN15/20	-	+	+	+	-	-	-1)	o
PN16	V583X DN25...40	-	+	+	-	+	0	+	o
PN25	V5825B	+	+	o	-	+	+	+	o
Large Linear Valves									
PN16	V5011R	-	+	+	-	+	-	-1)	o
PN16	V5011S	+	+	+	-	+	+	-1)	o
PN16	V5013R	-	+	+	-	+	-	-1)	o
PN16	V5013E	-	+	+	-	+	-	-1)	o
PN16	V5328/V5049	+	+	+	-	+	+	-1)	-
PN6/16	V5329/V5015/V5050	-	+	+	-	+	-	-1)	-
PN16	V5016A	+	+	+	-	+	+	+	-
PN25	V5025A	+	+	+	-	+	+	+	-
PN40	V5049A	+	+	+	-	+	+	-1)	-
PN25/40	V5050A	-	+	+	-	+	-	-1)	-
Rotary Valves									
PN6	V54x A/F	-	+	+	-	-	-	-	-
PN6	V5433/42	-	+	+	-	-	-	-	-
Butterfly Valves									
PN16	V5421B	-	+	+	-	-	-	+	o

Legend:

- + "Best choice"
- o "Possible"
- "Not recommended"
- 1) "High Dp for small nominal sizes"



Please note:

This table is only a recommendation. A valve marked with a "+" is a preferred choice in specific applications.

Also a valve marked with a "-" may be suitable for an application but overspecified.

Valves & Actuators for every Control Loop

Small Linear Valves

		
V5822A...	V5823A...	V5823C...
		
V5832A...	V5833A...	V5833C...
		
V5832B...	V5833A...	V5825E...

More details?

Visit Honeywell's product catalog at:

<http://europe.hbc.honeywell.com>

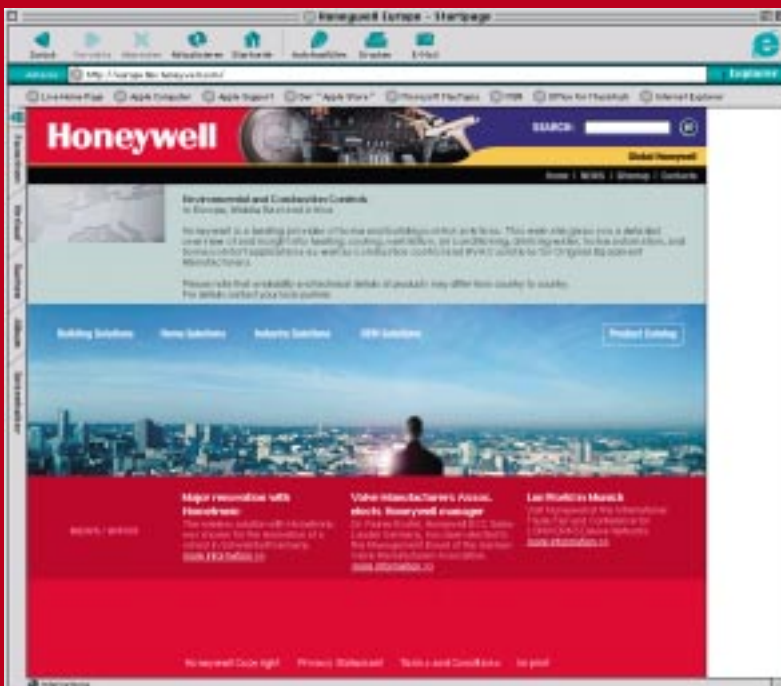
*1 for on/off valves kvs 1.6 and 2.5 only
(V5822A4...; V5823A4...; V5823C4...; V5832A4...; V5833A4...)

*2 for on/off valves 2.5 mm stroke only
(V5822A4...; V5823A4...; V5823C4...; V5832A4...; V5833A4...)







*3 can be used as on/off if correctly wired

*4 valve & actuator are factory assembled – order V5422L/E for control

*5 requires A9991.0479 linkage











Actuators

Actuators			Thermoelectric					
Electronic parameters								
Power supply	Control input signal							
AC 24 V		LON				M7410G...	M7410G...	
	DC 0-10 V	modulating				M7410A...	M7410E...	
		floating					M7410C...	M6410
		on / off	M100-Ax	M8450A...	M5410C...			
AC 230 V	DC 0-10 V	modulating						M6410
		floating						
		on / off	M100-Bx	M4450A...	M5410L...			
stroke (mm)			4.0 mm	8.0 mm	4.0/8.0 mm	4.0 mm	8.0 mm	8.0 mm
stem force (N)			90 N	96 N	90N	90 N	180 N	180 N

Valves	Types	Hydraulic parameters			Available sizes					
		PN rate	Port connection type	k_{vs} (m ³ /h)	DN	DN	DN	DN	DN	DN
V5822A...	2-way	PN 16	conical sealing	0.16...4.0 *1	15/20 *2	15/20	15/20	15/20 *2	15/20	15/20
V5823A...	3-way	PN 16	conical sealing	0.25...4.0 *1	15/20 *2	15/20	15/20	15/20 *2	15/20	15/20
V5823C...	3-way/bypass	PN 16	conical sealing	0.25...4.0 *1	15/20 *2	15/20	15/20	15/20 *2	15/20	15/20
V5832A...	2-way	PN 16	flat sealing	0.16...4.0 *1	15/20 *2	15/20	15/20	15/20 *2	15/20	15/20
V5833A...	3-way	PN 16	flat sealing	0.25...4.0 *1	15/20 *2	15/20	15/20	15/20 *2	15/20	15/20
V5833C...	3-way/bypass	PN 16	flat sealing	0.25...4.0 *1	15/20 *2	15/20	15/20	15/20 *2	15/20	15/20
V5832B...	2-way	PN 16	flat sealing	4.0...25						
V5833A...	3-way	PN 16	flat sealing	4.0...25						
V5825B...	2-way	PN 25	flat sealing	0.25...10						

Large Linear Valves

Valves	Types	PN
	V5011R/S...	2-way
	V5013R...	2-way
	V5013E...	2-way
	V5328A...	2-way
	V5049A...	2-way
	V5016A.../V5025A	2-way
	V5329A/C	3-way
	V5015A/V5050A	3-way
V5011R...	2-way	PN 16
V5011S...	2-way	PN 16
V5328A...	2-way	PN 16
V5049A...	2-way	PN 16
V5016A...	2-way	PN 16
V5025A...	2-way	PN 16
V5049A...	2-way	PN 16
V5013R...	3-way	PN 16
V5013E...	3-way	PN 16
V5329C...	3-way	PN 16
V5015A...	3-way	PN 16
V5329A...	3-way	PN 16
V5050A...	3-way	PN 16
V5050A...	3-way	PN 25

Rotary Valves

	V5421C		V5421B		V5421A
	V5431A		V5431F		V5431E
	V5441A		V5441F		V5442A
	V5441B		V5441C		V5441D

Electromotoric Linear Actuators							Electromotoric Rotary Actuators				Manual
	M7410G...		ML743XE...	ML7420A...	ML7421A3004	ML7421B3003	M7061E		ML7174E*5		
OC...	M7410C...	M6410C...	ML6435B...	ML6420A.../ML6425A,B...	ML6421A3005	ML6421B3004	M6061A	M6063A			
OL...		M6410L...	ML6435B...	ML6420A.../ML6425A,B...	ML6421A3013	ML6421B3012	M6061A*3	M6063A*3			
							M6061L	M6063L	V5422E*4		
							M6061L*3	M6063L*3	V5422L*4		
mm	8.0 mm	8.0 mm	8.0 mm	20 mm	20 mm	38 mm					
DN	300 N	300 N	400 N	600 N	1800 N	1800 N					

	DN	DN	DN
0			
0			
0			
0			
0			
*2			
	25...40	25...40	25...40
	25...40	25...40	25...40
	15...32	15...32	15...32

Hydraulic parameters			Available sizes		
Rate	Port connection type	k _{vs} (m³/h)	DN	DN	DN
16	internal thread	0.63...40	15...50	25...50	
16	internal thread	0.63...40	15...50	25...50	
16	flanged	0.25...100	15...80	25...50	
16	flanged	160...360			100...150
16	flanged	0.25...360	15...80		100...150
25	flanged	0.4...360	15...80		100...150
40	flanged	0.25...160	15...65	15...65	80...100
16	internal thread	2.5...40	15...50	25...50	
16	external thread	2.5...40	15...50	25...50	
N 6	flanged	2.5...100	15...80	40...80	
N 6	flanged	140...310			100...150
16	flanged	2.5...100	15...80	32...80	
16	flanged	160...360			100...150
25/40	flanged	2.5...160	15...80	15...80	100

	Valves	Types	Valve characteristic			Available sizes				
			PN rate	Port connection type	k _{vs} (m³/h)	DN	DN	DN	DN	DN
	V5421C	2-way	PN 10/	wafer	52...24869					25...600
	V5421B	2-way	PN 6/10/16	wafer	52...3093	25...200				
	V5422L	2-way	PN 10	wafer	4825...24868				250...600	
	V5422E	2-way	PN 10	wafer	4825...24868				250...600	
	V5431A	3-way	PN 6	internal thread	4...25	15...40				
	V5431F	3-way	PN 6	flanged	6.3...680	20...150				
	V5441A	4-way	PN 6	internal thread	4...25	15...40				
	V5441F	4-way	PN 6	flanged	10...630	25...200				
	V5433A	3-way	PN 6	internal thread	2.5...40		20...50	20...50		
	V5442A	4-way	PN 6	internal thread	4...16		20...32	20...32		
	V5431T/H	3-way	PN 10	external thread	2.5...25	25...32				
	V5434H	3-way	PN 10	external thread	-		to be used with V5431T			

Technical Data – Actuators

Actuator type	AC 24 V / LON	AC 24 V / DC 0–10 V modulating	AC 24 V / DC 2–10 V modulating	AC 24 V floating	AC 24 V on / off	AC 230 V floating	AC 230 V on / off	Stemforce / torque	stroke (mm) / angle of rotation (°)	Runtime (s)	Spring return *1	Manual adjustment	Auxiliary switch	Feedback signal (2...10 Vdc)	Potentiometer	Digital Input / Output	Protection class
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Small Linear Actuators

Thermoelectric																	
M100-AG					●			90N	4	-300	R						IP43
M100-BG						●		90N	4	-300	R						IP43
M100-AO					●			90N	4	-300	E						IP43
M100-BO							●	90N	4	-240	E						IP43
M4450A1009							●	96N	8	-240	E						IP43
M8450A1000					●			96N	8	-300	E						IP43
Motoric																	
M5410C1001 / 4005					●			90N	8 / 4	3							IP54
M5410L1001 / 4005						●		90N	8 / 4	3							IP54
M7410G1008	●							90N	4	53						1 DI	IP42
M7410G1016	●							180N	8	150						1 DI	IP42
M7410G1024	●							300N	8	150						1 DI	IP42
M7410A1001					●			90N	4	53							IP43
M7410E1002			●					180N	8	150							IP42
M7410E2026			●					180N	8	150		●					IP42
M7410E4022			●					180N	8	150		●	2				IP42
M7410E1028			●					300N	8	150							IP42
M7410E2034			●					300N	8	150		●					IP42
M7410E4030			●					300N	8	150		●	2				IP42
M7410C1007					●			180N	8	150							IP43
M6410C2023					●			180N	8	150		●					IP43
M6410C4029					●			180N	8	150		●	2				IP43
M7410C1015					●			300N	8	150							IP43
M6410C2031					●			300N	8	150		●					IP43
M6410C4037					●			300N	8	150		●	2				IP43
M6410L2023						●		180N	8	150		●					IP43
M6410L4029						●		180N	8	150		●	2				IP43
M6410L2031						●		300N	8	150		●					IP43
M6410L4037						●		300N	8	150		●	2				IP43
ML7430E1005			●					400N	8	15		●					IP54
ML7435E1004			●					400N	8	60	R						IP54
ML6435B1008					●			400N	8	60	R						IP54
ML6435B1016						●		400N	8	60	R						IP54

Large Linear Actuators

Motoric																	
ML7420G1009	●							600N	20	60		●	2 ²				IP54
ML7420G1012	●							600N	20	60		●	2 ²			2 DI	IP54
ML7420G1020	●							600N	20	60		●	2 ²			2 DD	IP54
ML7420A3006			●	●				600N	20	60		●	2 ²	●	●*2		IP54
ML7420A3014			●	●				600N	20	30		●	2 ²	●	●*2		IP54
ML7425A3005			●	●				600N	20	108	E		2 ²	●	●*2		IP54
ML7425B3004			●	●				600N	20	108	R		2 ²	●	●*2		IP54
ML7421A3004			●	●				1800N	20	114		●	2 ²	●	●*2		IP54
ML7421B3003			●	●				1800N	38	210		●	2 ²	●	●*2		IP54
ML6420A3007					●			600N	20	60		●	2 ²	●	●*2		IP54
ML6420A3023					●			600N	20	30		●	2 ²	●	●*2		IP54
ML6425A3006					●			600N	20	108	E		2 ²	●	●*2		IP54
ML6425B3005					●			600N	20	108	R		2 ²	●	●*2		IP54
ML6421A3005					●			1800N	20	114		●	2 ²	●	●*2		IP54
ML6421B3004					●			1800N	38	210		●	2 ²	●	●*2		IP54
ML6420A3015						●		600N	20	60		●	2 ²	●	●*2		IP54
ML6420A3031						●		600N	20	30		●	2 ²	●	●*2		IP54
ML6425A3014						●		600N	20	108	E		2 ²	●	●*2		IP54
ML6425B3021						●		600N	20	108	R		2 ²	●	●*2		IP54
ML6421A3013						●		1800N	20	114		●	2 ²	●	●*2		IP54
ML6421B3012						●		1800N	38	210		●	2 ²	●	●*2		IP54

Rotary Valve Actuators

Motoric																	
M6063A1003					●			7Nm	90	100		●					IP44
M6063A4007					●			7Nm	90	100		●	2				IP44
M6063L1009						●		7Nm	90	100		●					IP44
M6063L4003						●		7Nm	90	100		●	2				IP44
M6061A1013					●			10Nm	90	90		●	2 ²		●*2		IP54
M6061A1021					●			20Nm	90	96		●	2 ²		●*2		IP54
M6061A1039					●			30Nm	90	138		●	2 ²		●*2		IP54
M6061A1047					●			40Nm	90	210		●	2 ²		●*2		IP54
M6061L1019						●		10Nm	90	90		●	2 ²		●*2		IP54
M6061L1027						●		20Nm	90	96		●	2 ²		●*2		IP54
M6061L1035						●		30Nm	90	138		●	2 ²		●*2		IP54
M6061L1043						●		40Nm	90	210		●	2 ²		●*2		IP54
M7061E1012			●	●				10Nm	90	90		●	2*2		●*2		IP54
M7061E1020			●	●				20Nm	90	180		●	2*2		●*2		IP54
ML7174E3013			●	●				10Nm	90	110		●		●			IP54
ML7174E3021			●	●				10Nm	90	110		●	2	●			IP54

*1 R = retracts; E = extends
*2 BS accessories

Honeywell in Europe, Middle East, Africa and Asia Pacific

More information?

- Contact your local Honeywell partner
- View product details and the complete technical documentation at:
<http://europe.hbc.honeywell.com/products>

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