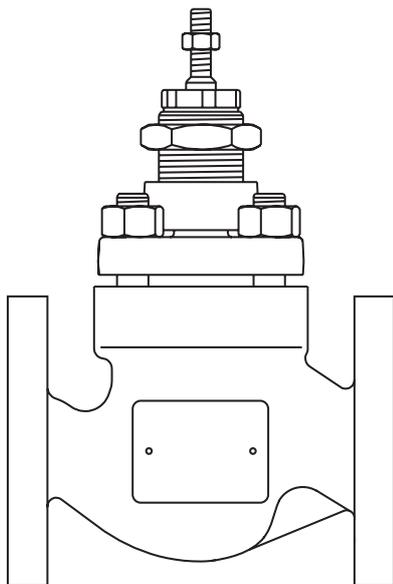


L Series
 DN15 to DN100 (½" to 4")



K Series
 DN15 to DN100 (½" to 4")

GCV Two-port Control Valves

DN15 to DN100 (½" to 4")

EN Standard K and L Series

Description

GCV is a range of two-port single seat globe valves with cage retained seats conforming to EN standard. These valves are available in four body materials in sizes ranging from DN15 to DN100 (½" to 4"). When used in conjunction with a pneumatic or electric linear actuator they provide characterised modulating or on/off control.

Important note: Throughout this document, reference has been made to the standard KE or LE control valve. With the exception of trim type, the KE, LE, KF, LF, KL and LL control valves are identical.

BSP threaded connections are to standard BSP T Rp (ISO 7-1).

Sizes and pipe connections

Valve Series	Material	Screwed	Flanged					
		BSP	PN16	PN16	PN25	PN40	JIS/KS10	JIS/KS20
		Up to DN50 (2")	DN65 and DN100 (2½" and 4") ¹	DN15-DN100 (½" to 4")				
L Series	Cast Iron	●		●				
	Carbon Steel			●			●	
	Stainless Steel			●			●	
K Series	SG Iron	●	●		●		●	
	Carbon Steel					●		●
	Stainless Steel	●				●		●

¹ For others size use PN25 body which are dimensionally identical to PN16.

Compliance

The GCV control valve when coupled to the PN9000 series or AEL7 actuator complies with the requirements of Machinery Directive 2006/42EC. Please refer to the installation and maintenance instructions for the PN9000 series and the GCV valve and the AEL7 for potential hazards and safety information relating to the installation, commissioning, maintenance and disposal of the product assembly and its component parts.

Standards

Designed in accordance with EN 60534. This product fully complies with the requirements of the European Pressure Equipment Directive 2014/68/EU and carries the  mark when so required.

Certification

This product is available with certification to EN 10204 3.1.

Note: All certification/inspection requirements must be stated at the time of order placement.

Food contact

This product is not to be used on steam, liquid or gas that either forms an ingredient of, or comes into direct contact with food products in the EU.

GCV valve characteristic - options:

KE and LE **Equal percentage (E)** - Suitable for most modulating process control applications providing good control at all flowrates.

KF and LF **Fast opening (F)** - For on/off applications only.

KL and LL **Linear (L)** - Primarily for liquid flow control where the differential pressures across the valve is constant.

GCV valve options:

Stem sealing	PTFE chevron seals (P-N)	Standard
	Graphite packing (H)	High temperature applications
	Bellows/graphite secondary seals (D)	Zero emissions and high temperature applications PN25 - Up to 400 °C (752 °F)
Seating	Metal-to-metal	431 stainless steel - standard 316L stainless steel
	Soft seating	Up to 152 °C (305.6 °F) - PTFE for Class VI shut-off for low temperature applications. Up to 220°C (428 °F) - PEEK (C and P) for Class VI shut-off
	Hard facing	316L stainless steel with Stellite™ 6 facing
Bonnet type	Standard bonnet	
	Extended bonnet for hot/cold applications (Only available on K Series)	
Trim	Standard trim	
	Low noise and anti-cavitation trim (see TI-S24-59). Not available with Reverseable PEEK Seat (C)	

GCV is a modular valve based on 4 body sizes covering DN15-100 (DN15-25, DN32-50, DN65-80, DN100) sizes in order to reduce the number of spare parts. The valves are available with a range of accessories including actuators, positioners, solenoid valves, limit switches.

Materials - DN15 to DN100 (½" to 4")

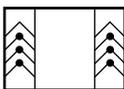
	LE3		KE7	LE-KE4		LE-KE6	
	DN15-50 (½"-2")	DN65-100 (2½"-4")	DN15-100 (½"-4")	DN15-50 (½"-2")	DN65-100 (2½"-4")	DN15-50 (½"-2")	DN65-100 (2½"-4")
1 Body	EN1563 : ENGJS-400-18		EN1563 : ENGJS-400-18LT	EN10273 : 1.0460	EN10213 : 1.0619N	EN10213 : 1.4408	
2 Bonnet	EN1563 : ENGJS-400-18	EN1561 : ENGJL-250	EN1563 : ENGJS-400-18LT	EN10213 : 1.0619N		EN10213 : 1.4408	

Alternative body and bonnet material available on request

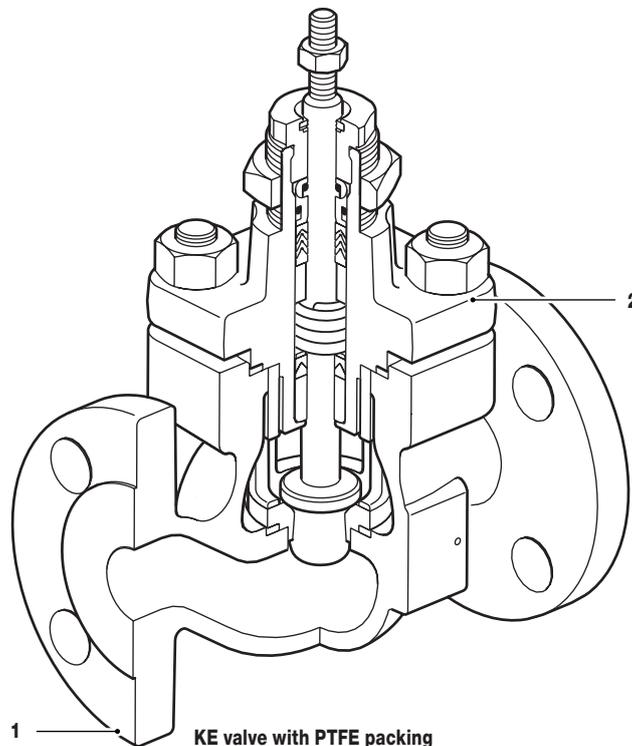
* Graphite packing

High temperature packing	9	Lower and upper stem guide	Stellite 6
	16		
	14	Grafoil packing	Graphite rings
	10, 11, 12, 15, 17 and 19	Not used	

*
PTFE stem sealing



PTFE stem sealing for vacuum service

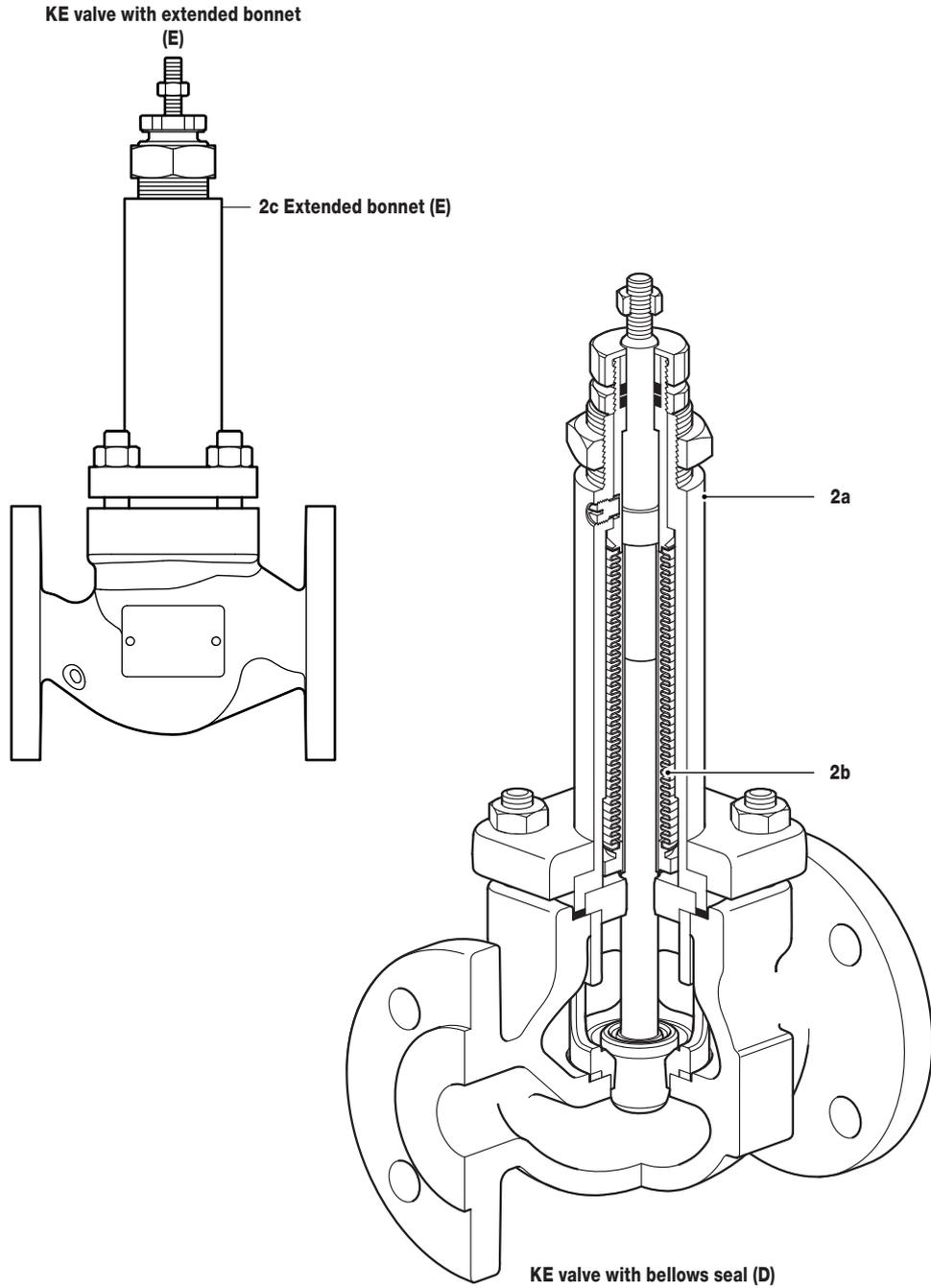


Materials - DN15 to DN100 (½" to 4") continued on next page

Materials - DN15 to DN100 (½" to 4")

	LE3		KE7	LE-KE4		LE-KE6	
	DN15-50 (½"-2")	DN65-100 (2½"-4")	DN15-100 (½"-4")	DN15-50 (½"-2")	DN65-100 (2½"-4")	DN15-50 (½"-2")	DN65-100 (2½"-4")
2a Bonnet extension	EN10213 : 1.0619N					EN10213 : 1.4408	
2b Bellows	Stainless steel 316L						
2c Extended bonnet	EN10213 : 1.0619N					EN10213 : 1.4408	

Alternative body and bonnet material available on request

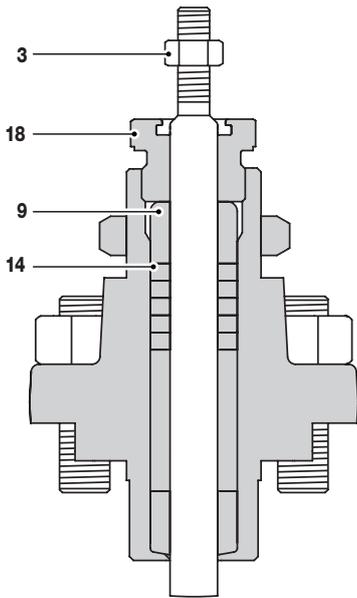


Materials - DN15 to DN100 (½" to 4") continued on next page

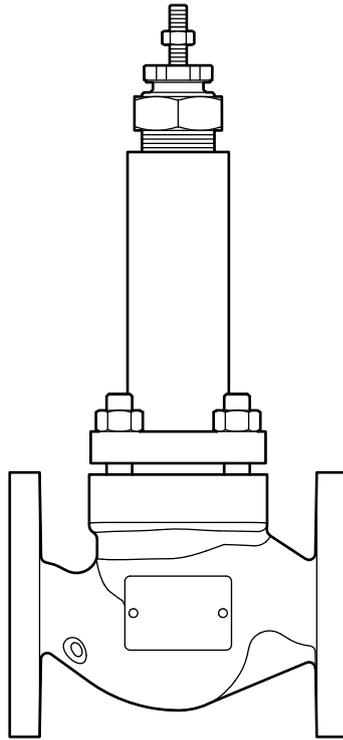
Materials - DN15 to DN100 (½" to 4") continued

3	Stem lock-nut			Stainless steel A2-70
4	Bonnet gasket			Graphite and stainless steel
5	Seat retainer			Duplex stainless steel ASME A994 CD4MCuN
6	Valve seat ring	Seat option	T	Stainless steel 431
		Seat option	S	Stainless steel 316L
		Seat option	W	Stainless steel 316L + Stellite™ 6
		Seat option	C and P	PEEK
		Seat option	G	Stainless Steel 316L + PTFE
7	Seat gasket			Graphite and stainless steel
8	Valve plug and stem	Seat option	T	Stainless steel 431
		Seat option	S	Stainless steel 316L
		Seat option	W	Stainless steel 316L + Stellite™ 6
		Seat option	C/G/P	Stainless steel 316L for stainless steel valve and Stainless steel 431 for all other materials
9	Lower stem guide	Bonnet option	P	PTFE glass filled
		Bonnet option	N	Nitronic™ 60
		Bonnet option	H	Stellite™ 6
10	Lower stem wiper	Bonnet option	P - N	PTFE
11	Packing guard washer			Stainless steel 316L
12	Spring	Bonnet option	P - N	Stainless steel 316L
13	Packing spacer			Stainless steel 316L
14	Packing set	Bonnet option	P - N	PTFE chevron
		Bonnet option	H	Graphite rings
15	Outer 'O' ring	Bonnet option	P - N	VITONTM
16	Upper stem guide	Bonnet option	P	PTFE glass filled
		Bonnet option	N	Nitronic™ 60
		Bonnet option	H	Stellite™ 6
17	Inner 'O' ring	Bonnet option	P - N	VITONTM
18	Gland nut			Stainless steel 316L for stainless steel valve and stainless steel 431 for all others materials
19	Scraper ring	Bonnet option	P - N	PTFE
20	Actuator clamp nut	Stainless steel valve		Nickel plated carbon steel
		All others		Zinc plated carbon steel
22	Bonnet extension gasket			Graphite and stainless steel
26	Spindle lock and anti-rotation nut			Stainless steel
27	Nut	Bolting option	S	Stainless steel A2-70 for stainless steel valve and carbon steel Gr.8 for all others
		Bolting option	H	Stainless steel A2-70
28	Stud	Bolting option	S	Stainless steel A2-70 for stainless steel valve and carbon steel 8.8 for all others
		Bolting option	H	Stainless steel A2-70

KE valve with graphite packing



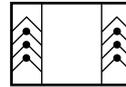
KE valve with extended bonnet (E)



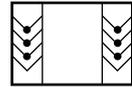
*** Graphite packing**

	9	Lower and upper stem guide	Stellite 6
	16		
High temperature packing	14	Grafoil packing	Graphite rings
	10, 11, 12, 15, 17 and 19 Not used		

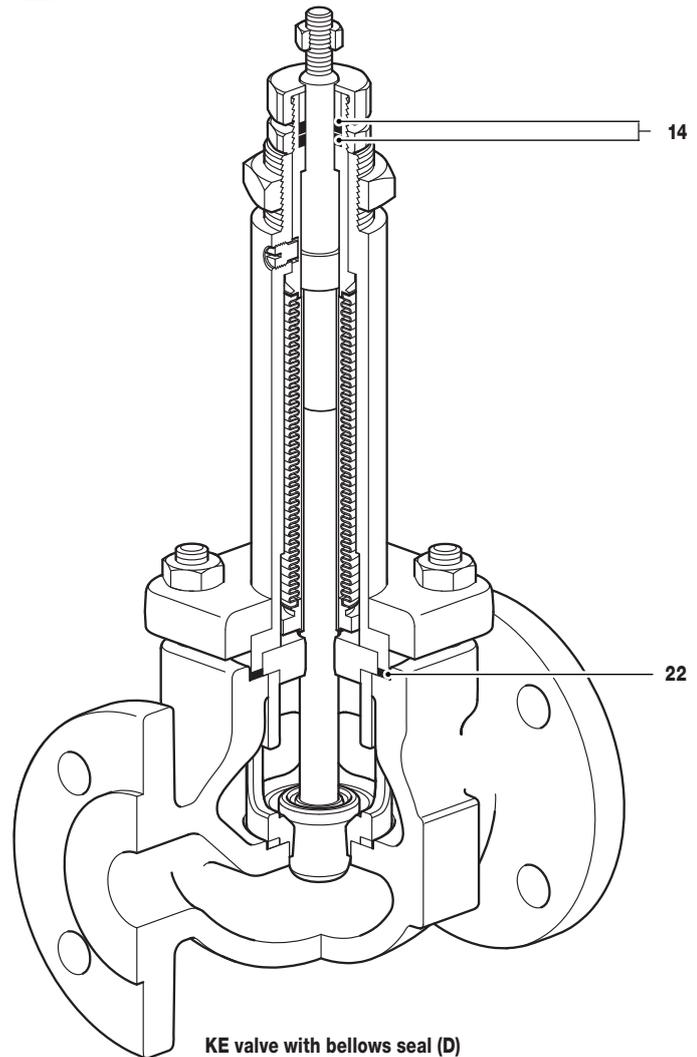
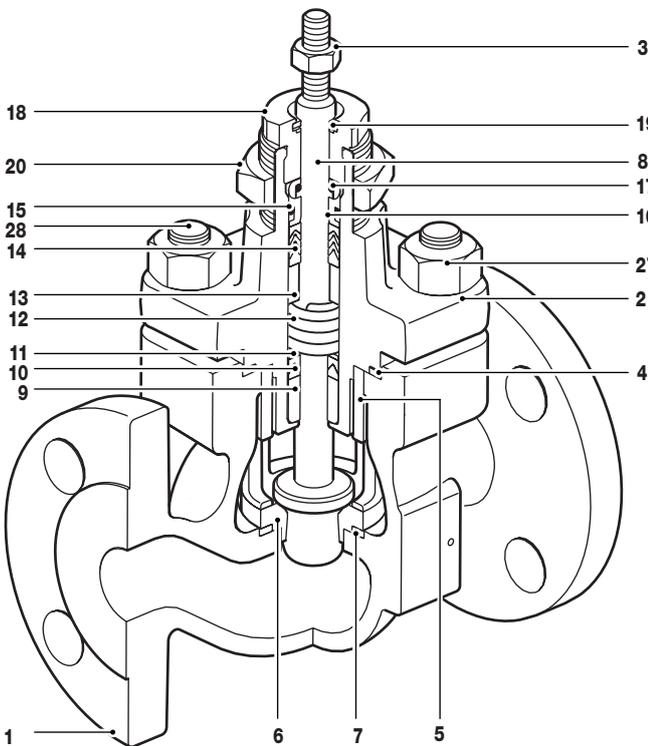
* PTFE stem sealing



PTFE stem sealing for vacuum service



KE valve with PTFE packing



KE valve with bellows seal (D)

K_v values

Valve size		DN15 (½")	DN20 (¾")	DN25 (1")	DN32 (1¼")	DN40 (1½")	DN50 (2")	DN65 (2½")	DN80 (3")	DN100 (4")	
Standard trim	High capacity Equal %	4.9	7.2		17.5	31.0	46.0				
	Full port	Equal %	4.0	6.3	10.0	16.0	25.0	36.0	73	100	160
		Linear	4.0	6.3	10.0	16.0	25.0	36.0	73	100	160
		Fast opening	4.9	7.2	11.0	18.0	31.0	50.0	90	117	180
	Reduced trim 1	Equal %	2.5	4.0	6.3	10.0	16.0	25.0	36	73	100
		Linear	2.5	4.0	6.3	10.0	16.0	25.0	36	73	100
	Reduced trim 2	Equal %	1.6	2.5	4.0	6.3	10.0	16.0	25	36	63
		Linear	1.6	2.5	4.0	6.3	10.0	16.0	25	36	63
	Reduced trim 3	Equal %	1.0	1.6	2.5	4.0	6.3	10.0	16	25	36
		Linear	1.0	1.6	2.5	4.0	6.3	10.0	16	25	36
	Reduced trim 4	Equal %		1.0	1.6		4.0	6.3		16	
		Linear		1.0	1.6		4.0	6.3		16	
	Reduced trim 5	Equal %			1.0			4.0			
		Linear			1.0			4.0			
	Microflute (Linear only) (not available with C Seat option)		0.5	0.5	0.5						
		0.2	0.2	0.2							
		0.1	0.1	0.1							
		0.07	0.07	0.07							
		0.01	0.01	0.01							

Bellows D Service Life Expectancy

Valve			Process		Estimated life expectancy (operations)	
Inlet Size	Stem Ø	No. Ply	Pressure	Temperature	100% Stroke	25-75% modulation
DN15-50 (½"-2")	12 mm (0.47")	3	10.6 bar g (153.7 psi g)	20 °C (68 °F)	220,000	>2,000,000
			10.6 bar g (153.7 psi g)	185 °C (365 °F)	150,000	>2,000,000
			17.1 bar g (247.9 psi g)	400 °C (752 °F)	30,000	750,000
DN65-100 (2½"-4")	16 mm (0.63")	3	10.6 bar g (153.7 psi g)	20 °C (68 °F)	200,000	>2,000,000
			10.6 bar g (153.7 psi g)	185 °C (365 °F)	140,000	2,000,000
			17.1 bar g (247.9 psi g)	400 °C (752 °F)	30,000	150,000

GCV series valve

Nominal Pressure		PN16	PN25	PN16	PN40	PN16	PN40	
Body Material		LE3	KE7	LE4	KE4	LE6	KE6	
Connection type	Flanged	PN16	DN15-100 (½"-4")	DN65 and 100 (2½"-4")	DN15-100 (½"-4")		DN15-100 (½"-4")	N/A
		PN25		DN15-100 (½"-4")				
		PN40				DN15-100 (½"-4")		DN15-100 (½"-4")
		JIS/ KS10		DN15-100 (½"-4")	DN15-100 (½"-4")		DN15-100 (½"-4")	N/A
		JIS/ KS20				DN15-100 (½"-4")		DN15-100 (½"-4")
	Threaded	BSP	DN15-50 (½"-2")				DN15-50 (½"-2")	
Maximum operating pressure	Flanged	PN16	16 bar @ 120 °C (232 psi @ 248 °F)		16 bar @ 50 °C (232 psi @ 122 °F)		16 bar @ 100 °C (232 psi @ 212 °F)	
		PN25		25 bar @ 120 °C (362 psi @ 248 °F)				
		PN40				40 bar @ 50 °C (580 psi @ 122 °F)		40 bar @ 100 °C (580 psi @ 212 °F)
		JIS/ KS10		13.7 bar @ 120 °C (199 psi @ 248 °F)	14 bar @ 120 °C (203 psi @ 248 °F)		14 bar @ 120 °C (203 psi @ 248 °F)	
		JIS/ KS20				34 bar @ 120 °C (493 psi @ 248 °F)		34 bar @ 120 °C (493 psi @ 248 °F)
	Threaded	BSP	16 bar @ 120 °C (232 psi @ 248 °F)	25 bar @ 120 °C (362 psi @ 248 °F)				40 bar @ 100 °C (580 psi @ 212 °F)
Maximum operating temperature	PEEK	C and P	220 °C (428 °F)					
		PTFE insert	G	152 °C (305 °F)				
	Seat	431S29	T	400 °C (752 °F)				
		316L	S					
		316L/ Stellite6	W					
Operating temperature range	Std. Bonnet	-10 to +300 °C (14 to 572 °F)						
	Ext. Bonnet		-10 to +350 °C (14 to 662 °F)		-10 to +400 °C (14 to 752 °F)		-10 to +400 °C (14 to 752 °F)	

GCV series valve (continued on next page)

GCV series valve (continued)

Body Material		LE3	KE7	LE4	KE4	LE6	KE6	
Maximum operating temperature	Stem Seal	P and N	250 °C (482 °F)					
		H	400 °C (752 °F)					
	Bellows D							
Maximum operating temperature	PN16	300 °C (572 °F)	350 °C (662 °F)	400 °C (752 °F)		400 °C (752 °F)		
		PN25		350 °C (662 °F)				
	Flanged	PN40				400 °C (752 °F)		400 °C (752 °F)
		JIS/KS10		300 °C (572 °F)			300 °C (572 °F)	
	JIS/KS20				400 °C (752 °F)		400 °C (752 °F)	
	Threaded	BSP	300 °C (572 °F)	350 °C (662 °F)	400 °C (752 °F)			
Maximum saturated steam service	PN16	12.9 bar g (187 psi g)	14.6 bar g (212 psi g)	13.3 bar g (193 psi g)		13.4 bar g (194 psi g)		
		PN25		22.5 bar g (326 psi g)				
	Flanged	PN40				31.1 bar g (451 psi g)		32.2 bar g (467 psi g)
		JIS/KS10		12.4 bar g (180 psi g)	13 bar g (189 psi g)	N/A	13 bar g (189 psi g)	
	JIS/KS20				30.1 bar g (437 psi g)		30.1 bar g (437 psi g)	
	Threaded	BSP	12.9 bar g (187 psi g)	22.5 bar g (326 psi g)				32.2 bar g (467 psi g)
Seat	C and P		19 bar g (276 psi g)					
	G		4 bar g (58 psi g)					
Bellows	D	12.9 bar g (187 psi g)	22.5 bar g (326 psi g)	13.3 bar g (193 psi g)	20.2 bar g (293 psi g)	13.4 bar g (194 psi g)	20.6 bar g (299 psi g)	
Leakage class	In accordance to IEC 60534-4	PEEK	Class VI					
		PTFE						
		Metal	Class IV (Class V on request)					
		Stellite™						
		Balanced	Class IV					
Characteristic	Equal %		Linear		Fast Acting			
Rangeability	50 : 1		30 : 1		10 : 1			
Travel	DN15 to DN50 (½" to 2"); 20 mm (0.79") DN65 to DN100 (2½" to 4"); 30 mm (1.18")							

Note: Consider the limitation of all of the constructive components when selecting a valve

Maximum differential pressures for Class IV shut-off in bar g (psi g)
 - Metal Seated (T&S)
 - FLOW UNDER
 - standard trim
 - (Pneumatic Actuators)

Acuator Type		Valve DN		DN15 to DN25 (½" to 1")																												
		Kvs	Stem sealing	0.01-0.07-0.1-0.2			0.5-1.0			1.6			2.5			4.0			4.9-6.3			7.2			10			11				
			Actuator thrust in N (lbf)	N-P	H	D	N-P	H	D	N-P	H	D	N-P	H	D	N-P	H	D	N-P	H	D	N-P	H	D	N-P	H	D	N-P	H	D		
PN9120E 0.2-1.0	192 (43)	40 (580)		40																												
				40 (580)	25 (363)	17.6 (255)	26.5 (384)	0.6 (9)	12.2 (178)	5.1 (74)	40	29.5 (428)	25	27.8 (403)	12.9 (187)	21.3 (308)	15.4 (223)	8.7 (126)	20.5 (297)	15.4 (223)	5.8 (84)	11.2 (162)	11.4 (165)	3.7 (54)	8 (116)							
PN9120E 0.4-1.2	384 (86)	40 (580)		40																												
				40 (580)	25 (363)	17.6 (255)	26.5 (384)	0.6 (9)	12.2 (178)	5.1 (74)	40	29.5 (428)	25	27.8 (403)	12.9 (187)	21.3 (308)	15.4 (223)	8.7 (126)	20.5 (297)	15.4 (223)	5.8 (84)	11.2 (162)	11.4 (165)	3.7 (54)	8 (116)							
PN9126E 1.0-2.0	960 (216)	40 (580)		40																												
				40 (580)	25 (363)	17.6 (255)	26.5 (384)	0.6 (9)	12.2 (178)	5.1 (74)	40	29.5 (428)	25	27.8 (403)	12.9 (187)	21.3 (308)	15.4 (223)	8.7 (126)	20.5 (297)	15.4 (223)	5.8 (84)	11.2 (162)	11.4 (165)	3.7 (54)	8 (116)							
PN9123E 2.0-4.0	1920 (432)	40 (580)		40																												
				40 (580)	25 (363)	17.6 (255)	26.5 (384)	0.6 (9)	12.2 (178)	5.1 (74)	40	29.5 (428)	25	27.8 (403)	12.9 (187)	21.3 (308)	15.4 (223)	8.7 (126)	20.5 (297)	15.4 (223)	5.8 (84)	11.2 (162)	11.4 (165)	3.7 (54)	8 (116)							

Maximum differential pressures for Class IV shut-off in bar g (psi g)
 - Metal Seated (T&S)
 - FLOW UNDER
 - standard trim
 - (Pneumatic Actuators)
 - continued

Actuator Type	DN65 to 100 (2½" to 4")																					
	Valve size			16			25			36			63-73-90			100-117			160-180			
	Kvs	Stem sealing	Actuator thrust in N (lbf.)	P	H	D	P	H	D	P	H	D	P	H	D	P	H	D	P	H	D	
PN9230E 0.2-1.0			2.8 (41)			1.2 (17)																
PN9230E 0.4-1.2			16.6 (241)	6.3 (91)	15 (218)	5.4 (78)	0.9 (13)	4.7 (68)	3.2 (46)	2.7 (39)	0.9 (13)	0.7 (10)										
PN9236E 1.0-2.0			40 (580)	40 (580)	25 (363)	23.4 (339)	18.9 (274)	22.7 (329)	16 (232)	15.5 (225)	8.2 (119)	7.9 (115)	4.7 (68)	3.5 (51)	4.5 (65)	2.5 (36)	1.8 (26)	2.4 (35)				
PN9233E 2.0-4.0			40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	37.4 (542)	34.2 (496)	21 (305)	19.9 (289)	12.4 (180)	11.2 (162)	12.2 (177)	7.3 (106)	6.6 (96)	7.2 (104)				
PN9330E 0.2-1.0			16.2 (234)	5.9 (86)	14.6 (212)	5.2 (75)	0.7 (10)	4.5 (65)	3 (44)	2.5 (36)	0.9 (13)	0.6 (9)										
PN9330E 0.4-1.2			40 (580)	33.2 (482)	25 (363)	17 (247)	12.5 (181)	16.3 (236)	11.5 (645)	8.3 (120)	11 (160)	5.6 (81)	3.1 (45)	1.9 (28)	2.9 (42)	1.5 (22)	0.7 (10)	1.4 (20)				
PN9336E 1.0-2.0			40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	36.7 (532)	33.5 (486)	25 (363)	19.5 (283)	12.2 (177)	11 (160)	12 (174)	7.1 (103)	6.4 (93)	7 (102)				
PN9337E 2.5-3.5			40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	33.8 (490)	33.8 (490)	25 (363)	21.3 (304)	20.6 (299)	21.2 (307)				

Maximum differential pressures for Class IV shut-off in bar g (psi g)
- Metal Seated (T&S)
- FLOW UNDER
- standard trim
- (Electric Actuators)

Valve DN		DN15 to DN25 (½" to 1")																															
		Up to 0,2		0.5-1.0			1.6			2.5			4.0			4.9-6.3			7.2			10			11								
Acuator Type	Kvs	N-P		H		D		N-P		H		D		N-P		H		D		N-P		H		D		N-P		H		D			
		Stem sealing	Actuator thrust in N (lbf.)																														
AEL3	2000 (450)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	38.3 (555)	30.5 (442)	25 (363)	9.9 (144)	2.1 (30)	6.5 (94)	
AEL71T	900 (202)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)
AEL71	1200 (270)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)
AEL72/82	2000 (450)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)
AEL72T	2100 (472)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)
AEL73	4000 (899)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)
AEL83	4500 (1012)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)

Maximum differential pressures for Class IV shut-off in bar g (psi g)
 - Metal Seated (T&S)
 - FLOW UNDER
 - standard trim
 - (Electric Actuators)
 - continued

Actuator type	Valve size																										
	DN32 to DN50 (1¼" to 2")																										
	4.0			6.3			10			16			17.5 - 18			25			31-36			46-50					
Kvs	N-P			H			D			N-P			H			D			N-P			H			D		
	Stem sealing	Actuator thrust in N (lbf.)																									
AEL3	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	25 (363)	33 (479)	40 (580)	25 (363)	30.7 (445)	24.6 (357)	25 (363)	15 (218)	11.7 (170)	13.6 (197)	11.5 (167)	8.8 (128)	10.3 (149)	7.5 (109)	5.6 (81)	6.7 (93)		
AEL71T	40 (580)	26.4 (383)	25 (363)	40 (580)	15.5 (225)	20.8 (302)	12.4 (180)	5.9 (86)	11.3 (164)	8.5 (123)	4.1 (59)	12 (174)	8.3 (120)	2.2 (32)	5.6 (81)	2.9 (42)	1.5 (21.8)		1.8 (26)			0.6 (9)					
AEL71	40 (580)	40 (580)	25 (363)	40 (580)	25 (363)	27.3 (396)	40 (580)	15.5 (225)	20.9 (303)	16.4 (238)	12 (174)	19.8 (287)	14.4 (209)	8.3 (120)	11.8 (171)	6.2 (90)	2.9 (42)	4.8 (70)	4.4 (64)	1.8 (26)	3.3 (48)	2.5 (36)	0.6 (9)	1.7 (25)			
AEL72/82	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	33 (479)	33 (479)	40 (580)	30.7 (445)	24.6 (357)	25 (363)	15 (218)	11.7 (170)	13.6 (197)	11.5 (167)	8.8 (128)	10.3 (149)	7.5 (109)	5.6 (81)	6.7 (93)			
AEL72T	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	35.6 (516)	35.6 (516)	40 (580)	32.7 (474)	26.6 (386)	25 (363)	16.1 (234)	12.8 (186)	14.7 (213)	12.4 (180)	9.7 (141)	11.2 (162)	8.1 (117)	6.2 (90)	7.3 (106)			
AEL73	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	37.1 (538)	33.8 (490)	25 (363)	29.1 (422)	26.5 (384)	25 (363)	20.1 (292)	18.2 (264)	19.3 (280)			
AEL74/84	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)			
AEL83	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)			

Maximum differential pressures for Class IV shut-off in bar g (psi g)
- Metal Seated (T&S)
- FLOW UNDER
- standard trim
- (Electric Actuated)
- continued

Actuator Type	Valve size															
	DN65 to DN100 (2½" to 4")															
	Kvs		16		25		36		63-73		100-117		160-180			
Stem sealing	P	H	D	P	H	D	P	H	D	P	H	D	P	H	D	
Actuator thrust in N (lbf.)																
AEL71T	7.3 (106)	5.6 (81)	1.3 (19)	0.6 (9)	0.3 (4)											
AEL71	13.4 (194)	3 (44)	11.8 (171)	4 (58)	3.3 (48)	1.7 (25)	0.4 (6)									
AEL72/82	29.7 (431)	19.3 (280)	11 (160)	6.6 (96)	10.3 (149)	7.2 (104)	4 (58)	6.7 (97)	3.2 (46)	1.4 (20)	2.9 (42)	1.5 (22)	0.4 (6)	1.3 (19)	0.5 (7)	0.4 (6)
AEL72T	31.7 (460)	21.3 (309)	11.9 (173)	7.4 (107)	11.2 (162)	7.8 (113)	4.6 (67)	7.3 (106)	3.6 (52)	1.8 (26)	3.3 (48)	1.7 (25)	0.6 (9)	1.6 (23)	0.6 (9)	0.5 (7)
AEL73	40 (580)	40 (580)	28.7 (416)	24.2 (351)	25 (363)	19.8 (287)	16.6 (241)	19.3 (280)	10.3 (149)	8.5 (123)	10 (145)	6 (87)	4.9 (71)	5.9 (86)	3.3 (48)	2.6 (38)
AEL74/84	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	32.3 (468)	29.1 (422)	25 (363)	17.4 (252)	15.6 (226)	17.1 (248)	10.6 (153)	9.4 (136)	10.4 (151)	6.1 (88)	5.4 (78)
AEL75/85	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	24.4 (354)	22.6 (323)	24.1 (350)	15.1 (219)	13.9 (202)	14.9 (216)	9 (131)	8.2 (119)
AEL76/86	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	38.6 (560)	36.8 (534)	25 (363)	24.2 (351)	23 (334)	24 (348)	14.6 (212)	13.9 (202)
AEL77/87	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	30.9 (448)	29.8 (432)	25 (363)	18.8 (273)	18.1 (271)
AEL78	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	25.9 (376)	25 (363)
AEL83	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	40 (580)	40 (580)	40 (580)	25 (363)	40 (580)	40 (580)	25 (363)	25.9 (376)	25 (363)
Only for 431 trim																

Maximum differential pressures for Class VI shut-off in bar g (psi g)
 - Resilient Seated (P&C)
 - FLOW UNDER
 - standard trim
 - (Pneumatic Actuators)

Valve size		DN15 to DN25 (½" to 1")																													
		0.01-0.07			0.1-0.2			0.5			1.0			1.6			2.5			4.0			4.9-6.3			7.2					
Actuator Type	Kvs	N-P		H		D		N-P		H		D		N-P		H		D		N-P		H		D		N-P		H		D	
	PN9126E 1.0-2.0	Stem sealing	19		19		19		19		19		19		19		19		19		19		19		19		19		19		19
Actuator thrust in N (lbf.)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)	
PN9123E 2.0-4.0	Stem sealing	19		19		19		19		19		19		19		19		19		19		19		19		19		19		19	
	Actuator thrust in N (lbf.)	(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)		(276)	

Valve size		DN15-25 (½" to 1")											
		10			11			11					
Actuator Type	Kvs	N-P		H		D		N-P		H		D	
	PN9126E 1.0-2.0	Stem sealing	19		13.8		19		18.6		10.9		15.3
Actuator thrust in N (lbf.)		(276)		(200)		(276)		(270)		(158)		(222)	
PN9123E 2.0-4.0	Stem sealing	19		19		19		19		19		19	
	Actuator thrust in N (lbf.)	(276)		(276)		(276)		(276)		(276)		(276)	

Note : Maximum differential pressure for saturated steam. Refer to GESTRA for other liquids or gases.

Maximum differential pressures for Class VI shut-off in bar g (psi g)
- Resilient Seated (P&C)
- FLOW UNDER
- standard trim
- (Pneumatic Actuators)
- continued

Actuator Type	DN32 to DN50 (1¼" to 2")																																	
	Valve size		4.0				6.3				10				16				17.5 - 18				25				31-36				46-50			
	Kvs	Stem sealing Actuator thrust in N (lbf.)	N-P		H		D		N-P		H		D		N-P		H		D		N-P		H		D		N-P		H		D			
PN9126E 1.0-2.0			960 (216)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	
	19 (276)	16 (232)		19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)			
PN9123E 2.0-4.0	1920 (432)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)			
		19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)			
PN9220E 0.2-1.0	680 (153)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)			
		19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)			
PN9220E 0.4-1.2	1360 (306)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)			
		19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)	19 (276)	16 (232)			
PN9226E 1.0-2.0	3400 (967)																																	

Actuator Type	DN65 to 100 (2½" to 4")																														
	Valve size		16				25				36				63-73-90				100-117				160-180								
	Kvs	Stem sealing Actuator thrust in N (lbf.)	P		H		D		P		H		D		P		H		D		P		H		D						
PN9230E 0.2-1.0			680 (153)	7.6 (11)	6 (87)	2.6 (38)	1.9 (28)	1.6 (23)	1.1 (16)	0.5 (7)	0.3 (4)	0.1 (1)																			
	19 (276)	11.1 (161)		8.6 (125)	7.9 (115)	5.8 (84)	5.3 (77)	2.9 (42)	1.1 (16)	2.7 (39)	1.7 (25)	0.5 (7)	1.5 (22)	0.9 (13)	0.1 (1)	0.8 (12)															
PN9230E 0.4-1.2	1360 (306)	19 (276)	11.1 (161)	8.6 (125)	7.9 (115)	5.8 (84)	5.3 (77)	2.9 (42)	1.1 (16)	2.7 (39)	1.7 (25)	0.5 (7)	1.5 (22)	0.9 (13)	0.1 (1)	0.8 (12)															
		19 (276)	11.1 (161)	8.6 (125)	7.9 (115)	5.8 (84)	5.3 (77)	2.9 (42)	1.1 (16)	2.7 (39)	1.7 (25)	0.5 (7)	1.5 (22)	0.9 (13)	0.1 (1)	0.8 (12)															
PN9236E 1.0-2.0	3400 (967)			19 (276)	19 (276)	18.7 (271)	15.5 (225)	10.2 (148)	8.4 (122)	9.9 (144)	6.3 (91)	5.1 (74)	6.1 (88)	3.7 (54)	3 (44)	3.6 (52)															
				19 (276)	19 (276)	18.7 (271)	15.5 (225)	10.2 (148)	8.4 (122)	9.9 (144)	6.3 (91)	5.1 (74)	6.1 (88)	3.7 (54)	3 (44)	3.6 (52)															
PN9233E 2.0-4.0	6800 (1529)																														
PN9330E 0.2-1.0	1340 (301)	19 (276)	10.7 (155)	8.4 (122)	7.7 (112)	5.7 (83)	5.2 (75)	2.9 (42)	1.1 (16)	2.6 (38)	1.6 (23)	0.5 (7)	1.4 (20)	0.8 (11)	0.7 (10)																
		19 (276)	10.7 (155)	8.4 (122)	7.7 (112)	5.7 (83)	5.2 (75)	2.9 (42)	1.1 (16)	2.6 (38)	1.6 (23)	0.5 (7)	1.4 (20)	0.8 (11)	0.7 (10)																
PN9330E 0.4-1.2	2680 (602)			19 (276)	15.7 (228)	14.1 (205)	10.9 (158)	7.6 (110)	5.8 (84)	7.3 (106)	4.7 (68)	3.5 (51)	4.5 (65)	2.7 (39)	2 (29)	2.6 (38)															
				19 (276)	15.7 (228)	14.1 (205)	10.9 (158)	7.6 (110)	5.8 (84)	7.3 (106)	4.7 (68)	3.5 (51)	4.5 (65)	2.7 (39)	2 (29)	2.6 (38)															
PN9336E 1.0-2.0	6700 (1506)																														
PN9337E 2.5-3.5	16750 (3766)																														

Note : Maximum differential pressure for saturated steam. Refer to GESTRA for other liquids or gases.

Maximum differential pressures for Class VI shut-off in bar g (psi g)
- Resilient Seated (P&C)
- FLOW UNDER
- standard trim
- (Electric Actuators)

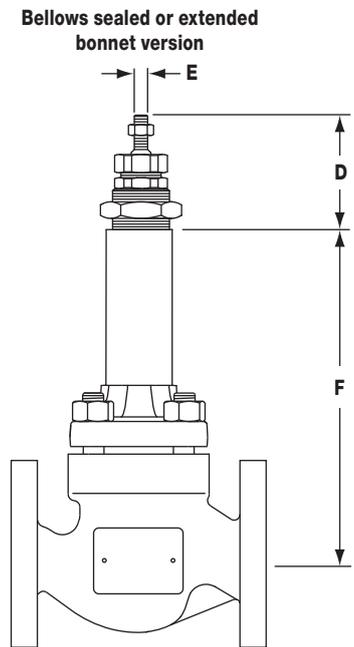
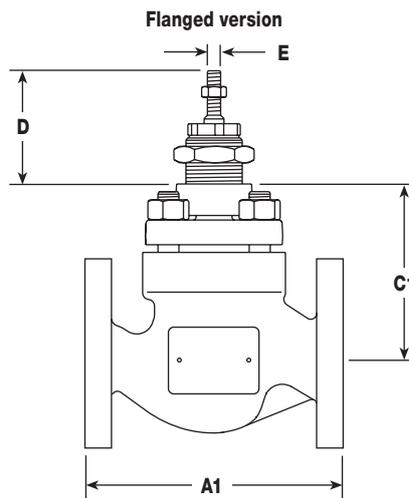
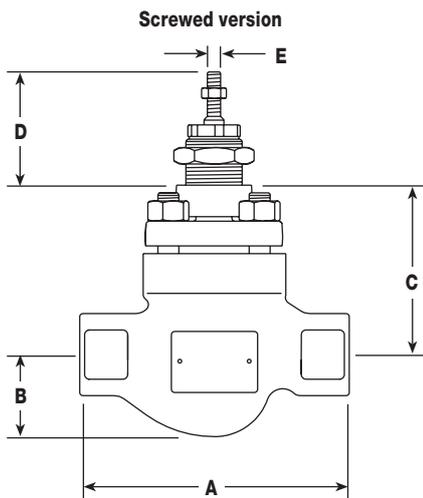
Actuator Type	Valve size DN15 to DN25 (½" to 1")											
	Upto Kv6.3			7.2			10			11		
	P	H	D	P	H	D	P	H	D	P	H	D
AEL3	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)
AEL71T	19 (276)	19 (276)	19 (276)	19 (276)	15.2 (220)	19 (276)	19 (276)	11.9 (173)	17.3 (251)	17.1 (248)	9.3 (135)	13.7 (199)
AEL71	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	17.1 (248)	19 (276)
AEL72/82	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)

Actuator Type	Valve size DN32 to DN50 (1¼" to 2")																									
	4			6.3			10			16			17.5-18			25			31-36			46-50				
	P	H	D	P	H	D	P	H	D	P	H	D	P	H	D	P	H	D	P	H	D	P	H	D		
AEL3	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10 (145)	10.2 (148)	8.3 (120)	9.4 (136)		
AEL71T	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	4.9 (71)	2.3 (33)	3.8 (55)	1.4 (20)	2.4 (35)
AEL71	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	7.6 (110)	4.9 (71)	6.4 (93)	3.3 (48)	4.3 (62)
AEL72/82	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	19 (276)	14.6 (212)	12 (174)	13.5 (196)	8.3 (120)	9.4 (136)
AEL72T																						15.5 (225)	12.9 (187)	14.1 (205)	8.9 (129)	10 (145)
AEL83																						17.3 (251)	14.6 (212)	16.1 (234)	10.2 (148)	11.2 (162)

Note : Maximum differential pressure for saturated steam. Refer to GESTRA for other liquids or gases.

Dimensions for the **GCV two-port control valve** approximate in mm and (inches)

Valve size	Screwed BSP			Flanged			D	Thread	Bellows seals and extended bonnet		
	A	B	C	All (except LE43/LE63 JIS/KS10)	A1 LE43/63 JIS/KS10	C1			E	mm	inches
										F	
DN15 (1/2")	130 (5.1)	40 (1.6)	103 (4.1)	130 (5.1)	124 (4.9)	103 (4.1)	69 (2.7)	M8	216	8.5	
DN20 (3/4")	155 (6.1)	45 (1.8)	103 (4.1)	150 (5.9)	144 (5.7)	103 (4.1)			218	8.58	
DN25 (1")	160 (6.3)	50 (2.0)	103 (4.1)	160 (6.3)	160 (6.3)	103 (4.1)			214	8.42	
DN32 (1 1/4")	185 (7.3)	60 (2.4)	132 (5.2)	180 (7.1)	176 (7.0)	132 (5.2)			243	9.57	
DN40 (1 1/2")	205 (8.1)	65 (2.6)	132 (5.2)	200 (7.9)	198 (7.8)	132 (5.2)			238	9.37	
DN50 (2")	230 (9.1)	80 (3.1)	127 (5.0)	230 (9.1)	222 (8.7)	127 (5.0)					
DN65 (2 1/2")				290 (11.4)	290 (11.4)	201 (7.9)	81 (3.2)	M12	351	13.82	
DN80 (3")				310 (12.2)	310 (12.2)	201 (7.9)			365	14.37	
DN100 (4")				350 (13.8)	350 (13.8)	216 (8.5)					

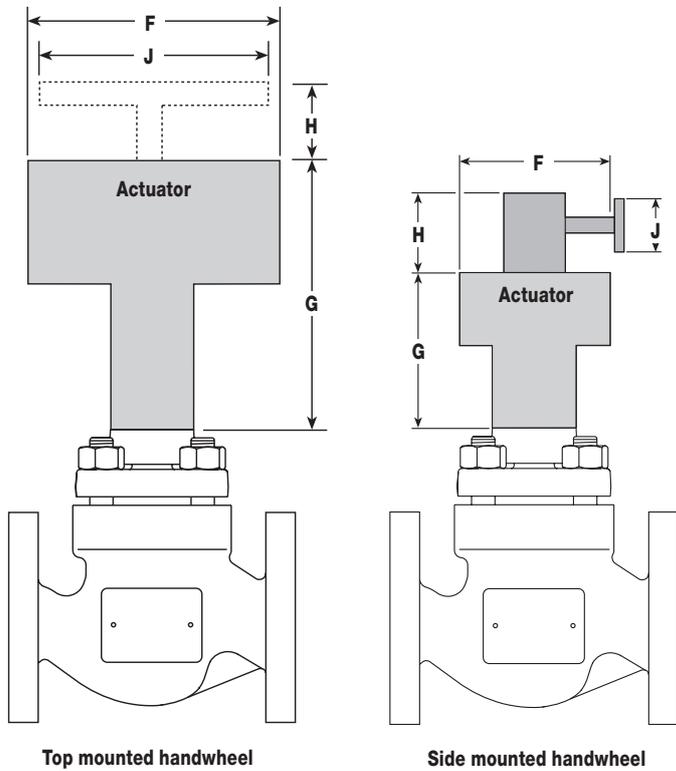


Weights
approximate in
kg (and lbs)

Valve size	KE valves					LE valves				Additional bellows and Extended bonnet
	KE43	KE61	KE63	KE71	KE73	LE31	LE33	LE43	LE63	
DN15 (1/2")	6.0 (13)	4.5 (10)	5.5 (12)	4.5 (10)	5.5 (12)	4.0 (9)	5.0 (11)	5.0 (11)	5.0 (11)	4.5 (10)
DN20 (3/4")	6.8 (15)	5.5 (12)	6.8 (15)	5.5 (12)	6.8 (15)	5.0 (11)	6.0 (13)	6.0 (13)	6.0 (13)	
DN25 (1")	7.0 (15)	6.0 (13)	7.0 (15)	6.0 (13)	7.0 (15)	5.5 (12)	6.5 (14)	6.5 (14)	6.5 (14)	
DN32 (1 1/4")	13.5 (30)	11.5 (25)	13.5 (30)	11.5 (25)	13.5 (30)	9.0 (20)	10.0 (22)	10.0 (22)	10.0 (22)	
DN40 (1 1/2")	14.0 (31)	12.0 (26)	14.0 (31)	12.0 (26)	14.0 (31)	10.0 (22)	12.8 (28)	12.8 (28)	12.8 (28)	
DN50 (2")	17.0 (37)	13.0 (29)	17.0 (37)	13.0 (29)	17.0 (37)	11.0 (24)	15.0 (33)	15.0 (33)	15.0 (33)	
DN65 (2 1/2")	35.0 (77)		35.0 (77)		35.0 (77)	-	32.0 (71)	32.0 (71)	32.0 (71)	10 (21)
DN80 (3")	40.0 (88)		40.0 (88)		40.0 (88)	-	36.0 (79)	36.0 (79)	36.0 (79)	
DN100 (4")	54.0 (119)		54.0 (119)		54.0 (119)	-	53.0 (117)	53.0 (117)	53.0 (117)	

Dimensions/weights for the **PN actuator range** approximate in mm and kgs (inches and lbs)

Actuator range and variants	F		G		H		J		Weight			
	mm	inches	mm	inches	mm	inches	mm	inches	Actuator		With handwheel	
									kg	lbs	kg	lbs
PN9100E	170	611/16"	275	107/8"	55	23/16"	225	87/8"	6	13.25	+5.86	+13.00
PN9100R					140	51/2"					+2.50	+5.50
PN9200E	300	117/8"	300	117/8"	55	23/16"	225	87/8"	17	37.50	+7.20	+15.75
PN9200R					140	51/2"					+3.77	+8.50
PN9320E	390	151/2"	325	127/8"	65	29/16"	350	133/4"	27	59.50	+7.20	+15.75
PN9320R					150	157/8"					+3.77	+8.50
PN9330E	390	151/2"	335	133/8"	65	29/16"	350	133/4"	27	59.50	+7.20	+15.75
PN9330R					150	157/8"					+3.77	+8.50
TN2100E	405	16"	369	141/2"	402	1553/64"	330	13"	37	83.25	+23.00	+51.75
TN2100R												
TN2100DA	405	16"	369	141/2"					30	67.50		



Dimensions/weights

for the **AEL actuator ranges**

approximate in mm and kgs (and in inches and lbs)

Actuator	F		G		Weight	
	mm	inches	mm	inches	kg	lbs
AEL3	230	9	283	111/4	5.7	12.5
AEL71T	162	6	490	191/4	8.7	19.5
AEL72T			508	20	9.3	20.5
AEL71	129	5	292	111/2	2.1	5
AEL72-3	173	7	379	15	4.8	11
AEL74	211	83/4	474	183/4	8.0	18
AEL75-7	259	101/4	527	203/4	15.0	33
AEL78	283	111/4	657	26	19.0	42
AEL62-3	180	7	459	18	5.0	11
AEL64			490	191/4	7.0	15.5
AEL65			557	22	10.0	22
AEL66	226	9	760	30	20.0	44

Spare parts

GCV two-port control valve DN15 to DN100 - 1/2" to 4"

The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

Note: When placing an order for spare parts please specify clearly the full product description as found on the label of the valve body, as this will ensure that the correct spare parts are supplied.

Available spares - K series

Actuator clamping nut		A
Gasket set	(Non-bellows sealed)	B, G
	PTFE packing	C
Stem seal kits	Graphite packing	C1
	Graphite seal set	C2
	* Equal percentage trim (No gaskets supplied)	D, E
Plug stem and seat kit	Fast opening trim (No gaskets supplied)	D1, E
	Linear trim (No gaskets supplied)	D2, E
PTFE soft seat seal		H

* Specify if reduced trim.

How to order spares

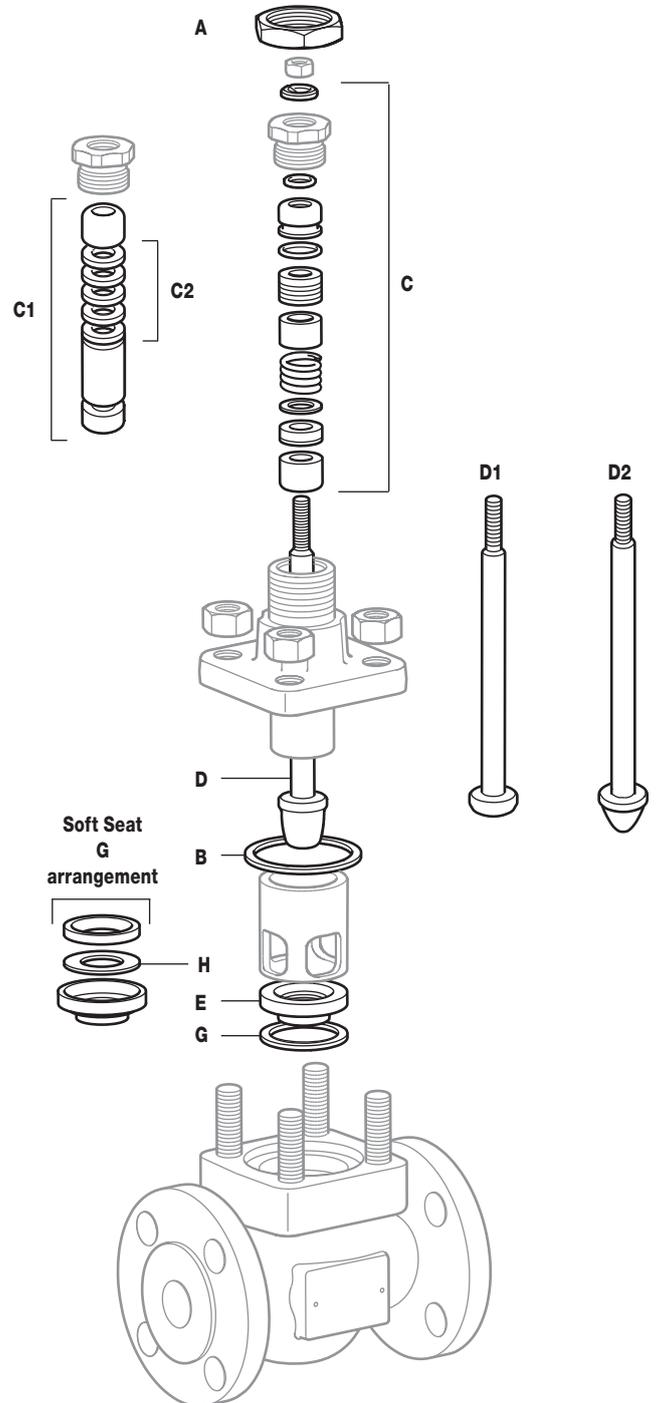
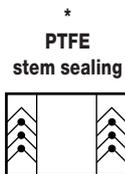
Always order spares by using the description given in the column headed 'Available spares', and state the size and type of valve including the full product description of the product.

Example:

1 - PTFE stem seal kit for a GESTRA DN25 GCV two-port KE43 PTSUSS.2 Ky 10 control valve.

How to fit spares

Full fitting instructions are given in the Installation and Maintenance Instructions supplied with the spare.



Spare parts

GCV two-port control valve with bellows seal - Type D DN15 to DN100 - 1/2" to 4"

The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

Note: When placing an order for spare parts please specify clearly the full product description as found on the label of the valve body, as this will ensure that the correct spare parts are supplied.

Available spares - K series

Actuator clamping nut		A
Gasket set	(Bellows sealed)	B, G
Stem seal kit	Graphite secondary seal and gasket set	C3
	*Equal percentage trim (No gaskets supplied)	D6, E
Plug stem and seat kit	Fast opening trim (No gaskets supplied)	D7, E
	Linear trim (No gaskets supplied)	D8, E
Bellows seal assembly		F
PTFE soft seat seal		H

* Specify if reduced trim.

How to order spares

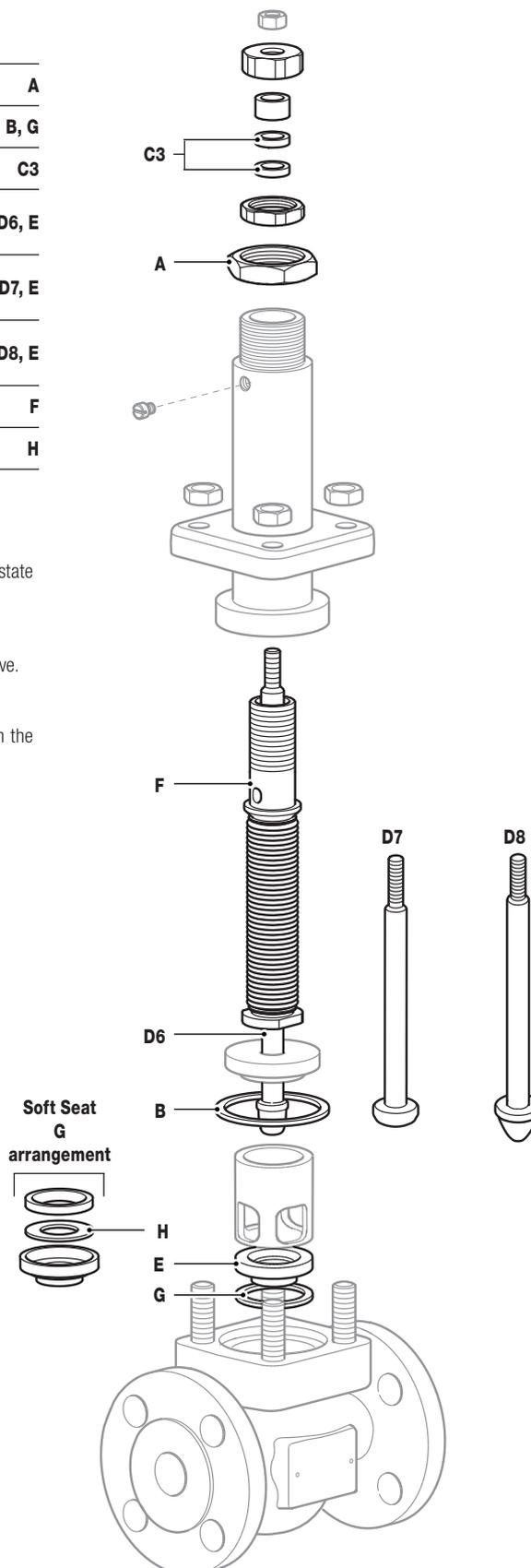
Always order spares by using the description given in the column headed 'Available spares', and state the size and type of valve including the full product description of the product.

Example:

1 - Graphite stem seal kit for a GESTRA DN25 GCV two-port KE43 DTSUSS.2 Kv 10 control valve.

How to fit spares

Full fitting instructions are given in the Installation and Maintenance Instructions supplied with the spare.



GCV selection guide:

Valve size	EN standard = DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80 and DN100	DN25
Valve series	K = K series 2-port control valve L = L series 2-port control valve	K
Valve characteristic	E = Equal percentage F = Fast opening L = Linear	E
Flange type	Blank = EN (PN)	Blank
Flow	Blank = under T = over	Blank
Body material	3 = Cast iron 4 = Carbon steel 6 = Stainless steel 7 = SG iron	4
Connections	1 = Screwed 3 = Flanged	3
Stem sealing	D = Bellows/graphite secondary seals H = Graphite N = PTFE with Nitronic bush - DN15 to DN50 only P = PTFE V = PTFE for vacuum service	P
Seating	C = Steam-Tight Reversible PEEK seat G = PTFE soft seat P = Full PEEK S = 316L stainless steel T = 431 stainless steel W = 316L with stellite™ 6 facing	T
Type of trim	A1 = 1 stage anti-cavitation A2 = 2 stage anti-cavitation P1 = 1 stage low noise cage P2 = 2 stage low noise cage P3 = 3 stage low noise cage S = Standard trim	S
Trim balancing	B = Balanced (not available with seating option C) U = Unbalanced	U
Bonnet type	E = Extended (Only available for K Series) S = Standard	S
Bolting	H = High temperature S = Standard	S
Series	2 = .2	.2
Kvs	To be specified	Kv 16
Connection type	To be specified	Flanged PN40

Selection example:

DN32	-	K	E	4	3	P	T	S	U	S	S		.2	-	Kv 16	-	Flanged PN40
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How to order

Example: 1 off GESTRA GCV DN32 KE43PTSUSS.2 Kv 16 two-port control valve having flanged PN40 connections.

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