

Order chart - Viking Xtreme Valves - Xtreme operating pressure / temperature

P 2 L A X 5 1 1 E S H D D B 4 9

Valve family	P2L Viking inline valve																																														
Size	A 1/8 B 1/4 C 3/8 D 1/2																																														
Version	X Xtreme duty spool																																														
Port thread	11 G1/8 12 G1/4 13 G3/8 14 G1/2 91 1/8 NPT 92 1/4 NPT 93 3/8 NPT 94 1/2 NPT																																														
Solenoid pilot type	H¹ 16 bar / -40°C to 60°C <small>¹ Solenoid operated 'H' version supplied with B type enclosure 16 bar solenoid</small>																																														
Solenoid exhaust	D Vented N Capture/tapped M5																																														
Valve type function	Solenoid operated with internal supply to solenoid <table border="1"> <tr> <td>3</td> <td></td> <td>3/2 valve</td> </tr> <tr> <td>5</td> <td></td> <td>5/2 valve</td> </tr> <tr> <td>6</td> <td></td> <td>5/3 valve closed centre position</td> </tr> <tr> <td>7</td> <td></td> <td>5/3 valve pressurised centre</td> </tr> <tr> <td>8</td> <td></td> <td>5/3 valve vented centre</td> </tr> </table> Solenoid operated with external pilot supply to solenoids through ports 10 & 12 for 3/2 version and through ports 12 & 14 for 5/2 & 5/3 version <table border="1"> <tr> <td>L</td> <td></td> <td>3/2 valve</td> </tr> <tr> <td>N</td> <td></td> <td>5/2 valve</td> </tr> <tr> <td>P</td> <td></td> <td>5/3 valve closed centre position</td> </tr> <tr> <td>Q</td> <td></td> <td>5/3 valve pressurised centre</td> </tr> <tr> <td>R</td> <td></td> <td>5/3 valve vented centre</td> </tr> </table>	3		3/2 valve	5		5/2 valve	6		5/3 valve closed centre position	7		5/3 valve pressurised centre	8		5/3 valve vented centre	L		3/2 valve	N		5/2 valve	P		5/3 valve closed centre position	Q		5/3 valve pressurised centre	R		5/3 valve vented centre																
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Overrides	D Extended non-locking																																														
Solenoid enclosure / Lead length	A 22mm Solenoid pilot & 30mm coil Form A B 22mm Solenoid pilot & 22mm coil Industrial Form B N 22mm Solenoid pilot less coil																																														
Pilot main actuator / Return	E Solenoid operated valve S Spring (return only) P Press (return only)																																														
Voltage ³	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">AC</th> <th rowspan="2">DC</th> </tr> <tr> <th>60Hz</th> <th>50Hz</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>12</td> <td></td> <td></td> </tr> <tr> <td>42</td> <td>24</td> <td>22</td> <td></td> </tr> <tr> <td>45</td> <td></td> <td></td> <td>12</td> </tr> <tr> <td>47*</td> <td></td> <td></td> <td>12</td> </tr> <tr> <td>48*</td> <td></td> <td></td> <td>24</td> </tr> <tr> <td>49</td> <td></td> <td></td> <td>24</td> </tr> <tr> <td>53</td> <td>120</td> <td>110</td> <td></td> </tr> <tr> <td>57</td> <td>240</td> <td>230</td> <td></td> </tr> <tr> <td>72</td> <td></td> <td></td> <td>110</td> </tr> <tr> <td>XX</td> <td colspan="3">valve less solenoid/coil</td> </tr> </tbody> </table> <small>³ Shaded part numbers are available from stock Unshaded part numbers are available on request but will be subject to minimum order quantities Otherwise order coil and valve separately.</small>		AC		DC	60Hz	50Hz	40	12			42	24	22		45			12	47*			12	48*			24	49			24	53	120	110		57	240	230		72			110	XX	valve less solenoid/coil		
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

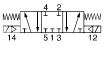
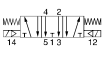
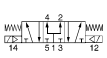
Shaded part numbers are standard

Solenoid operated directional control valves - Xtreme duty -40°C to +60°C

P2LAX/P2LBX - 16 bar, P2LCX/P2LDX - 12 bar

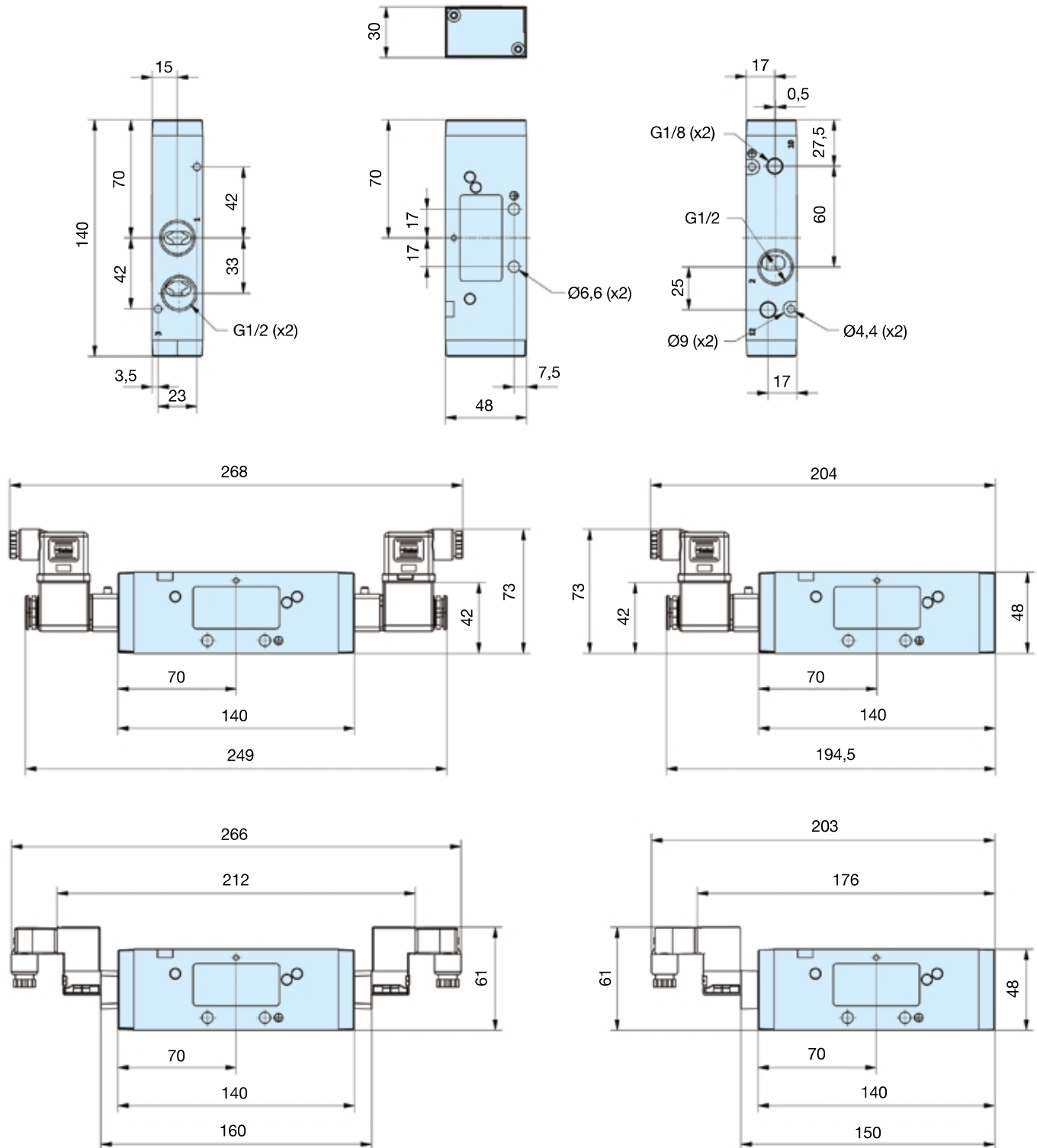
Complete with 22mm solenoid and 24V DC coil.

Internal supply to solenoid valve(s) via port 1. Connector/cable plugs to be ordered separately.

Symbol	Size	Actuation	Return	Min Operating Pressure (bar)	Changeover time (ms) at 6 bar @20°C actua./return	Weight Kg	Order code
3/2 valves, internal air, low temperature							
	G1/8	Electric signal	Electric signal	1,5	11/11	0,42	P2LAX311EEHDDDB49
	G1/4		Low temp.	1,5	13/13	0,42	P2LBX312EEHDDDB49
	G3/8			1,5	18/18	0,48	P2LCX313EEHDDDB49
	G1/2			1,5	18/18	0,48	P2LDX314EEHDDDB49
	G1/8	Electric signal	Spring	3,2	15/45	0,38	P2LAX311ESHDDDB49
	G1/4		Low temp.	3,5	25/65	0,38	P2LBX312ESHDDDB49
	G3/8			3,5	25/85	0,46	P2LCX313ESHDDDB49
	G1/2			3,5	25/85	0,46	P2LDX314ESHDDDB49
5/2 valves, internal air, low temperature							
	G1/8	Electric signal	Electric signal	1,5	11/11	0,27	P2LAX511EEHDDDB49
	G1/4		Low temp.	1,5	13/13	0,42	P2LBX512EEHDDDB49
	G3/8			1,5	18/18	0,48	P2LCX513EEHDDDB49
	G1/2			1,5	18/18	0,48	P2LDX514EEHDDDB49
	G1/8	Electric signal	Spring	3,2	15/45	0,22	P2LAX511ESHDDDB49
	G1/4		Low temp.	3,2	20/55	0,38	P2LBX512ESHDDDB49
	G3/8			3,2	25/85	0,46	P2LCX513ESHDDDB49
	G1/2			3,2	25/85	0,46	P2LDX514ESHDDDB49
5/3 valves, internal air, low temperature							
	G1/8	Electric signal	Electric signal	3,5	18/50	0,28	P2LAX611EEHDDDB49
	G1/4	Closed centre	Self centring	3,5	25/65	0,45	P2LBX612EEHDDDB49
	G3/8	position		3,5	30/90	0,55	P2LCX613EEHDDDB49
	G1/2		Low temp.	3,5	30/95	0,55	P2LDX614EEHDDDB49
	G1/8	Electric signal	Electric signal	3,5	18/50	0,28	P2LAX811EEHDDDB49
	G1/4	Vented centre	Self centring	3,5	25/65	0,45	P2LBX812EEHDDDB49
	G3/8	position		3,5	30/90	0,55	P2LCX813EEHDDDB49
	G1/2		Low temp.	3,5	30/95	0,55	P2LDX814EEHDDDB49
	G1/8	Electric signal	Electric signal	3,5	18/50	0,28	P2LAX711EEHDDDB49
	G1/4	Pressurised	Self centring	3,5	25/65	0,45	P2LBX712EEHDDDB49
	G3/8	centre		3,5	30/90	0,55	P2LCX713EEHDDDB49
	G1/2	position	Low temp.	3,5	30/95	0,55	P2LDX714EEHDDDB49

Dimensions

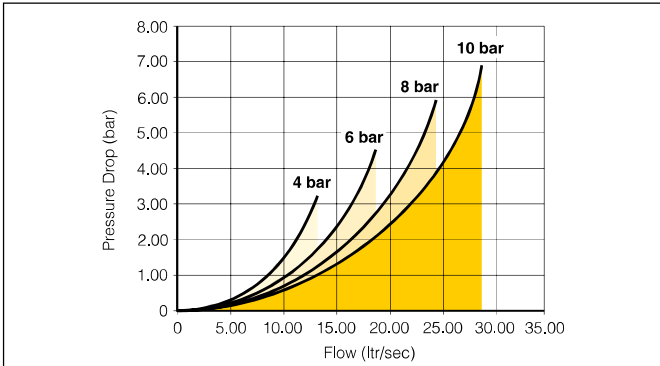
P2LDX... all
3/2 valves



Flow characteristics

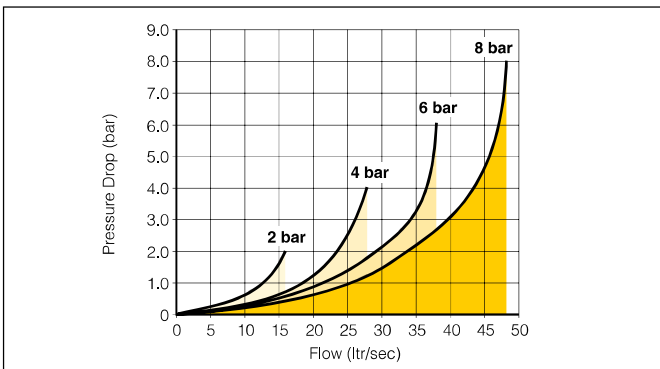
Flow capacities in accordance with ISO6358
 All pressures = effective pressure
 The curves in the diagram below are typical only

Technical Data P2LAX



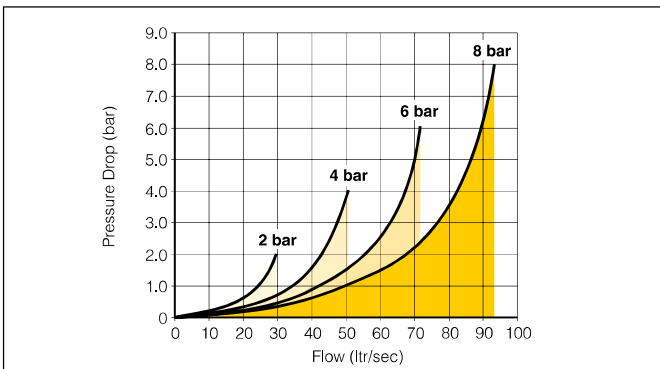
Port size	G1/8
Max operating pressure.	16 bar
Working temperature.	
Air pilot lever solenoid.	-40°C to + 60°C
Air pilot solenoid.	-10°C to + 50°C
Standard and food version.	-40°C to + 60°C
Mobile version.	-40°C to + 60°C
Flow (acc. to ISO 6358)	c = 3,0 NI/s x bar b = 0,2 Qn = 11,0 l/s Qmax = 19,0 l/s Cv = 0,65

Technical Data P2LBX



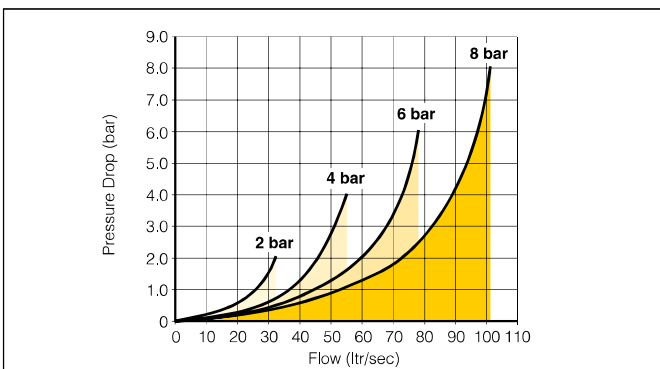
Port size	G1/4
Max operating pressure.	16 bar
Working temperature.	
Air pilot lever solenoid.	-40°C to + 60°C
Air pilot solenoid.	-10°C to + 50°C
Standard and food version.	-40°C to + 60°C
Mobile version.	-40°C to + 60°C
Flow (acc. to ISO 6358)	c = 5,4 NI/s x bar b = 0,2 Qn = 21,5 l/s Qmax = 38,0 l/s Cv = 1,33

Technical Data P2LCX



Port size	G3/8
Max operating pressure.	12 bar
Working temperature.	
Air pilot lever solenoid.	-40°C to + 60°C
Air pilot solenoid.	-10°C to + 50°C
Standard and food version.	-40°C to + 60°C
Mobile version.	-40°C to + 60°C
Flow (acc. to ISO 6358)	c = 10,3 NI/s x bar b = 0,22 Qn = 41,0 l/s Qmax = 72,0 l/s Cv = 2,5

Technical Data P2LDX



Port size	G1/2
Max operating pressure.	12 bar
Working temperature.	
Air pilot lever solenoid.	-40°C to + 60°C
Air pilot solenoid.	-10°C to + 50°C
Standard and food version.	-40°C to + 60°C
Mobile version.	-40°C to + 60°C
Flow (acc. to ISO 6358)	c = 11,3 NI/s x bar b = 0,3 Qn = 44,3 l/s Qmax = 78 l/s Cv = 2,71