High Performance Pneumatic Valves Viking Xtreme Series

G1/8- G1/2 body ported

Catalogue PDE2569TCUK - September 2015

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
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ENGINEERING YOUR SUCCESS.

Extreme Environments

Demand The Viking Xtreme

The Viking Xtreme valve range is robust, versatile and combines high performance with compact installation dimensions. Large flow capacity, short change-over times and low change-over pressure are important characteristics of this valve range.

The 1/8 & 1/4 sizes are designed to operate with pressures up to 16 bar and the 3/8 & 1/2 sizes up to 12 bar, in ambient temperatures -40°C to + 60°C when fitted with suitable solenoid operators.

Manually operated range

The complete range includes lever operated versions . They feature a rugged hand lever specifically designed for gloved hands and are available in 3/2, 5/2 and 5/3 functions

Viking Xtreme range

P2LAX, dimension G1/8
P2LBX, dimension G1/4
P2LCX, dimension G3/8
P2LDX, dimension G1/2

Wide range of 3/2, 5/2 and 5/3 valves for manual, penumatic or electric operation

Pilot chamber breathers are protected against ingress of dust and dirt.

Robust valve anodised aluminium valve body. The bore is polished to a very high surface finish for maximum flow capacity and long life.

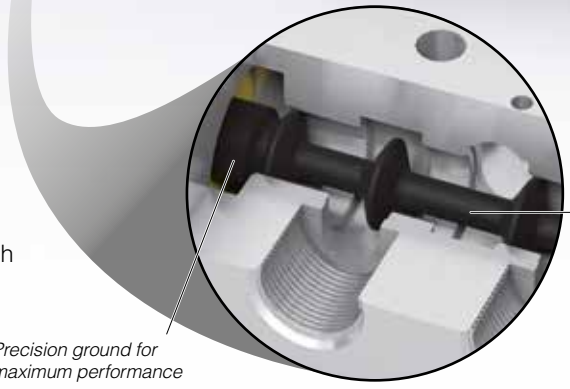
Aluminium spool with nitrile rubber coating, ground to exact size for optimum performance.

Stainless steel end cover screws resist aggressive environments.

Diecast end covers

Over-moulded single piece aluminium spool

- Reduced product complexity
- Increased flow
- Wide operating temperature range.
- Stable seal performance even with high flow/pressure drop across spool.



Nitrile overmoulding

Precision ground for maximum performance

Whatever the environment, Push it to the Xtreme

Compact installation dimensions - flexible installation

Compact dimensions direct body porting and integral mounting holes are all features of the Viking Xtreme range. In addition to single valve installation, the Viking valve may be installed on manifolds so that the valves have a common supply and manifolded exhausts.

Mobile applications

The Viking Xtreme valves have a robust body which is machined out of solid aluminium bar and then anodised. Valves have passed aggressive salt spray, and demanding vibration tests and will operate in ambient temperatures of –40^{0}C to +60^{0}C. Solenoids are available having wide voltage tolerance for mobile applications.

Maintenance

The Viking Xtreme valve range has been developed from the very successful VGD15 and P2L-A product ranges which have a history of reliable and long service life in demanding and difficult applications. Spares kits are available for the valve and solenoid operators.

Manually operated versions

The range has now been extended to include lever operated versions. The rugged lever actuator has been specifically designed for gloved hands to suit mobile applications in the most arduous of environments.
Available in 3/2, 5/2 and 5/3 functions with either spring return or detented lever and with a choice of mid position function in the 5/3 versions. The lever actuated versions are available across the entire range of port sizes G1/8, G1/4, G3/8 and G1/2.

High reliability

Valves easily comply with the requirements for the component reliability in accordance with EU Machinery Directive standards EN292-2 and EN983. The valves have passed shocks & vibrations test IEC6173: 1999 cat 1 class B

The Viking Xtreme valves have few moving parts combined with short spool movement, these features combine to give valves having high reliability and long service life. The valves are designed for use with or without supplementary lubrication.

Rust and corrosion resistant designs.

Viking valves are made entirely of anodized aluminium, for good corrosion resistance. The smooth design, with no dirt-collecting pockets, makes the valve suitable for most environments, including applications with stringent hygiene requirements. The valve has stainless steel fixing screws for the end covers, to withstand aggressive environments.

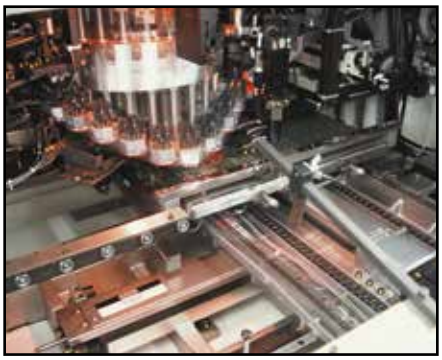
Insensitive to dirty air

Thanks to large flow passage areas and the large flow diameter of 1.0 in the pilot valves, the P2LA and P2LB can be used in normal industrial or mobile environments without any problems of blocking. However the service life of the valve depends on the cleanliness of the air. Please refer to ISO 8573.
Valves having ATEX approval
ATEX approved options are available for use in explosive atmospheres. Consult our Technical Sales Department for further information.

Complete range

Manual, pneumatic, electric, 3/2, 5/2 & 5/3; the viking Xtreme valve range is suitable for a multiple application. For mobile or industrial applications, all functions are available from G1/8 to G1/2 using the same design and technology

Road



Industrial

Oil & Gas

Flexible multiple installation

There is a system of multiple installation plates, intermediate blocks and several variants of connectors for the P2LA. Several variants of connectors are available, which permit connection from above, beneath, straight from the side or in the middle of a valve block. Using the type L manifold, valve blocks may be constructed for supplying several different pressures.

Manifold bar installation

A manifold bar, with common ducts for ports 1, 3 and 5 gives simple, time saving and easily serviced installation. Manifold bars are available in several different sizes, with space for between 2 and 14 valves. They are designed for simple handling and are entirely serviced from the front.

Pressure bar installation

A pressure bar for common primary air supply gives a simple, robust, time saving and easily serviced installation. When pressure bars are used, restrictor-silencers can be installed in the exhaust ports of each valve, for individual adjustment of cylinder/air motor speed. Pressure bars are available in a number of different sizes, with space ranging from 2 to 10 valves.

Rail

Agri-Food

Forestry

Working medium, air quality

Working medium: Dry, filtered compressed air to ISO 8573-1 class 3.4.3.

Recommended air quality for valves

For best possible service life and trouble free operation, ISO 8573-1 quality class 3.4.3 should be used. This means 5µm filter (standard filter) dew point +3°C for indoor operation (a lower dew point should be selected for outdoor operation) and oil concentration 1.0 mg oil/m³, which is what a standard compressor with a standard filter gives.

ISO 8573-1 quality classes

Quality class	Pollution particle size (µm)	Pollution max. concentration (mg/m³)	Water max. press. dew point (°C)	Oil max. concentration (mg/m³)
1	0,1	0,1	-70	0,01
2	1	1	-40	0,1
3	5	5	-20	1,0
4	15	8	+3	5,0
5	40	10	+7	25
6	-	-	+10	-

Typical cylinders speeds which can be achieved with Viking valves and different tube sizes.

In the chart below you can find the suitable valves, tubes etc. for each cylinder size. If you have a tube length over 2 m, choose one tube size larger than in the chart.

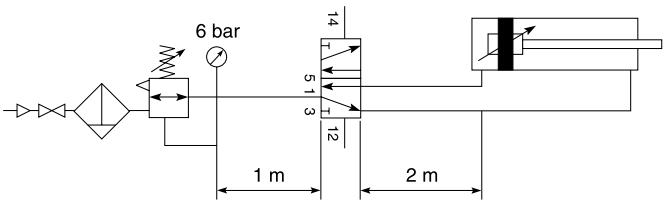
Following data is valid:

Supply pressure : min 7,0 bar

Regulator pressure setting : 6,0 bar

Pipe length between air treatment unit and valve : max 1 m

Pipe length between valve and cylinder : max 2 m



Cylinder bore	<20	20-32	40-50	63	80	100	125	160	200
Cylinder port	M5	G1/8	G1/4	G3/8	G3/8	G1/2	G1/2	G3/4	G3/4
Tubing Ext/Int	4/2.7	6/4	8/6	10/8	10/8	12/9	14/11	18/15	20/18
			6/4	8/6	12/9	14/11			
P2LAX	G1/8	G1/8	G1/8	G1/8	G1/8				
P2LBX	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4			
P2LCX			G3/8	G3/8	G3/8	G3/8	G3/8		
P2LDX				G1/2	G1/2	G1/2	G1/2	G1/2	G1/2

Cylinder speed < 0,5 m/s

Cylinder speed < 1 m/s

Oversized

Cylinder speed > 1 m/s

Material specification

P2LAX

Valve

Valve body	Anodised aluminium
End covers	Anodised aluminium
Lever housing	Acetal plastic
Spool	Aluminium + nitrile rubber
Piston	Acetal plastic/ Anodised aluminium
End cover sealings	Nitrile rubber
End cover screws	Stainless steel
Springs	Dacromet® - processed steel, Stainless steel
Lever	Reinforced polyamid plastic
Panel mounting nut	Polycarbonate plastic
Gaiter	Chloroprene rubber
Mounting screws for solenoid	Stainless steel

Accessories

Manifold bar	Anodised aluminium
Pressure bar	Anodised aluminium
Multiple manifolds	Anodised aluminium
End and intermediate blocks	Anodised aluminium

P2LBX

Valve

Valve body	Anodised aluminium
End covers	Anodised aluminium
Lever housing	Anodised aluminium
Spool	Aluminium + nitrile rubber
Piston	Acetal plastic/ Anodised aluminium
End cover sealings	Nitrile rubber
End cover screws	Stainless steel
Springs	Dacromet® - processed steel, Stainless steel
Lever	Steel Zinc Plated
Gaiter	Chloroprene rubber
Mounting screws for solenoid	Stainless steel
Panel Washer	Nitrile
Twist Bush	Acetal
Helix Bush	Brass
Pin	Plated Steel
Twist Housing	Anodised Aluminium
Twist Knob	Polyamide 6
Panel mounting ring	Acetal
Lever Housings	Anodised Aluminium
Lever selector	Zinc Diecast

Accessories

Manifold bar	Anodised aluminium
Pressure bar	Anodised aluminium

P2LCX

Valve

Valve body	Anodised aluminium
End covers	Anodised aluminium
Spool	Aluminium + nitrile rubber
Piston	Acetal plastic/ Anodised aluminium
End cover sealings	Nitrile rubber
End cover screws	Stainless steel
Springs	Dacromet® - processed steel, Stainless steel
Lever	Steel Zinc Plated
Gaiter	Chloroprene rubber
Mounting screws for solenoid	Stainless steel

P2LDX

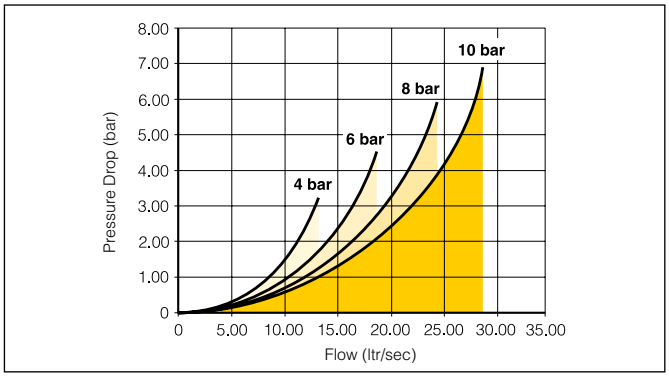
Valve

Valve body	Anodised aluminium
End covers	Anodised aluminium
Spool	Aluminium + nitrile rubber
Piston	Acetal plastic/ Anodised aluminium
End cover sealings	Nitrile rubber
End cover screws	Stainless steel
Springs	Dacromet® - processed steel, Stainless steel
Lever	Steel Zinc Plated
Gaiter	Chloroprene rubber
Mounting screws for solenoid	Stainless steel

Flow characteristics

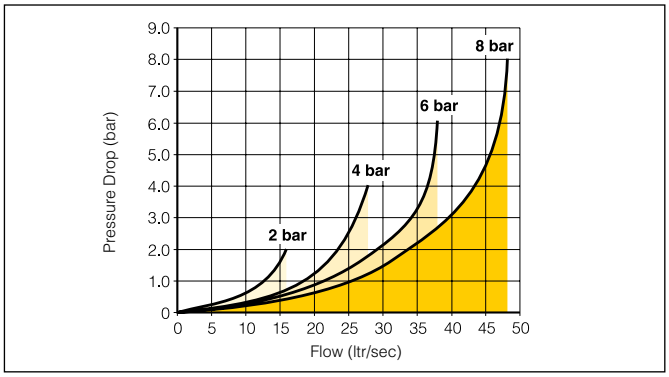
Flow capacities in accordance with ISO6358
All pressures = effective pressure
The curves in the diagram below are typical only

Technical Data P2LAX



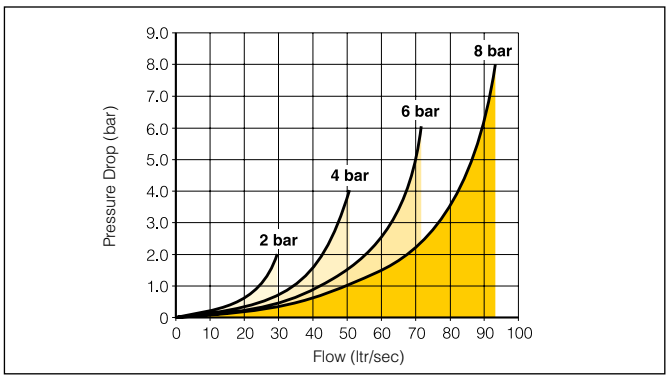
Port size	G1/8
Max operating pressure.	16 bar
Working temperature.	
Air pilot lever solenoid.	-40°C to + 60°C
Air pilot solenoid.	-10°C to + 50°C
Standard and food version.	-40°C to + 60°C
Mobile version.	-40°C to + 60°C
Flow (acc. to ISO 6358)	c = 3,0 Nl/s x bar b = 0,2 Qn = 11,0 l/s Qmax = 19,0 l/s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

Technical Data P2LBX



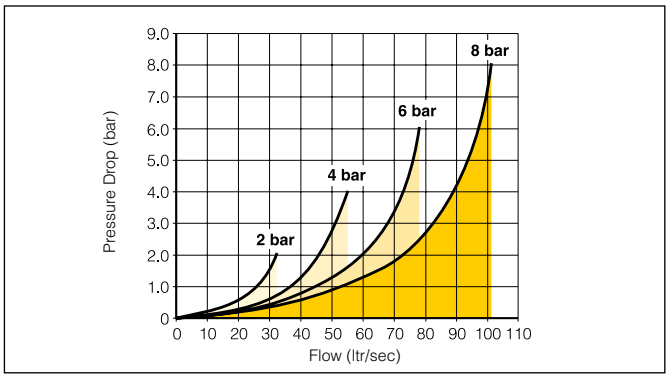
Port size	G1/4
Max operating pressure.	16 bar
Working temperature.	
Air pilot lever solenoid.	-40°C to + 60°C
Air pilot solenoid.	-10°C to + 50°C
Standard and food version.	-40°C to + 60°C
Mobile version.	-40°C to + 60°C
Flow (acc. to ISO 6358)	c = 5,4 Nl/s x bar b = 0,2 Qn = 21,5 l/s Qmax = 38,0 l/s 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 Nl/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 Nl/s x bar b = 0,3 Qn = 44,3 l/s Qmax = 78 l/s Cv = 2,71

Order chart - Viking Xtreme air pilot & manual valves - Xtreme operating pressure / temperature

P	2	L	A	X	5	1	1	P	S

	Valve family
P2L	Viking inline valve

	Size
A	1/8
B	1/4
C	3/8
D	1/2

	Version
X	Xtreme duty spool

* Xtreme duty spool suitable for
max operating pressure
16 bar. (P2LAX + P2LBX) 12 bar (P2LCX + P2LDX)
Temperature range -40^{O}C to +60^{O}C

	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
1N *	Namur G1/4
9N *	Namur 1/4 NPT

* Not available in 3/2 version

Valve type function		
Manual and pneumatic operated		
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

	Pilot main actuator/return
J ***	Rotary button - 2 positions
P	Air signal
S	Spring (return only)
V	Lever, 2 positions, 90^{O} to ports
Z ***	Lever, 2 positions, in line with ports
1 **	Lever, 3 positions self centred, 90^{O} to ports
2 **	Lever, held 3 positions, 90^{O} to ports
5 ***	Lever, 3 positions, self centered in line with port
6 ***	Lever, 3 positions, held in position in line with port
7 ***	Rotary button - 3 positions held in position

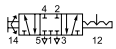
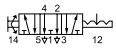
** Not available in 3/2 version

*** Only Available with port threads G1/4 and 1/4 NPT

Shaded part numbers are standard

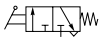
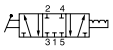
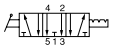
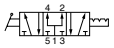
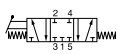
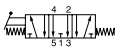
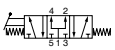
Pneumatic twist operated valves - Xtreme operating pressure / temperature

Max operating pressure 16 bar. Temp range -40°C to +60°C

Symbol	Size	Actuation	Return	Changeover Angle	Weight Kg	Order code
3/2 valves, temperature -40°C to +60°C						
	G1/4	Twist	Twist	45	0.34	**P2LBX312JJ**
5/2 valves, temperature -40°C to +60°C						
	G1/4	Twist	Twist	45	0.37	**P2LBX512JJ**
5/3 valves, temperature -40°C to +60°C						
	G1/4	Twist	Twist	54	0.41	**P2LBX71277**
	G1/4	Twist	Twist	54	0.41	**P2LBX61277**
	G1/4	Twist	Twist	54	0.41	**P2LBX81277**

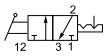
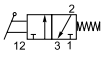
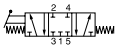
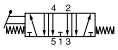
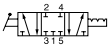
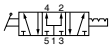
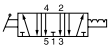
Lever operated directional control valves, lever 90° to ports

Max operating pressure 16 bar (A & B) 12 bar (C & D). temp range -40°C to +60°C

Symbol	Size	Actuation	Return	Changeover angle	Changeover Force	Type	Weight Kg	Order code
3/2 valves, standard temperature / Low temperature, lever 90° to ports								
	G1/8	Lever	Lever	20°	9 N	Std.	0,33	**P2LAX311VV**
	G1/4	Lever	Lever	20°	9 N	Std.	0,33	**P2LBX312VV**
	G3/8	Lever	Lever	32°	25 N	Std.	0,40	**P2LCX313VV**
	G1/2	Lever	Lever	32°	25 N	Std.	0,60	**P2LDX314VV**
	G1/8	Lever	Spring	20°	10N	Std.	0,33	**P2LAX311VS**
	G1/4	Lever	Spring	20°	10N	Std.	0,33	**P2LBX312VS**
	G3/8	Lever	Spring	32°	15 N	Std.	0,40	**P2LCX313VS**
	G1/2	Lever	Spring	32°	15 N	Std.	0,60	**P2LDX314VS**
5/2 valves, standard temperature / Low temperature, lever 90° to ports								
	G1/8	Lever	Lever	28°	9 N	Std.	0,18	**P2LAX511VV**
	G1/4	Lever	Lever	20°	9 N	Std.	0,33	**P2LBX512VV**
	G3/8	Lever	Lever	32°	25 N	Std.	0,40	**P2LCX513VV**
	G1/2	Lever	Lever	32°	25 N	Std.	0,60	**P2LDX514VV**
	G1/8	Lever	Spring	28°	10N	Std.	0,18	**P2LAX511VS**
	G1/4	Lever	Spring	20°	10N	Std.	0,33	**P2LBX512VS**
	G3/8	Lever	Spring	32°	15 N	Std.	0,40	**P2LCX513VS**
	G1/2	Lever	Spring	32°	15 N	Std.	0,60	**P2LDX514VS**
5/3 valves, low temperature, lever 90° to ports								
	G1/8	Lever	Lever	±14°	15 N	Std.	0,18	**P2LAX61122**
	G1/4	Closed centre position held in three positions		±12°	15 N	Std.	0,33	**P2LBX61222**
	G3/8			±16°	17 N	Std.	0,71	**P2LCX61322**
	G1/2			±16°	17 N	Std.	0,73	**P2LDX61422**
	G1/8	Lever	Lever	±14°	15 N	Std.	0,18	**P2LAX81122**
	G1/4	Exhausted centre position held in three positions		±12°	15 N	Std.	0,33	**P2LBX81222**
	G3/8			±16°	17 N	Std.	0,71	**P2LCX81322**
	G1/2			±16°	17 N	Std.	0,73	**P2LDX81422**
	G1/8	Lever	Lever	±14°	15 N	Std.	0,18	**P2LAX71122**
	G1/4	Pressure applied centre position held in three positions		±12°	15 N	Std.	0,33	**P2LBX71222**
	G3/8			±16°	17 N	Std.	0,71	**P2LCX71322**
	G1/2			±16°	17 N	Std.	0,73	**P2LDX71422**
	G1/8	Lever	Lever	±14°	16 N	Std.	0,18	**P2LAX61111**
	G1/4	Closed centre position Self centring		±12°	16 N	Std.	0,33	**P2LBX61211**
	G3/8			±16°	30 N	Std.	0,71	**P2LCX61311**
	G1/2			±16°	30 N	Std.	0,73	**P2LDX61411**
	G1/8	Lever	Lever	±14°	16 N	Std.	0,18	**P2LAX81111**
	G1/4	Exhausted centre position Self centring		±12°	16 N	Std.	0,33	**P2LBX81211**
	G3/8			±16°	30 N	Std.	0,71	**P2LCX81311**
	G1/2			±16°	30 N	Std.	0,73	**P2LDX81411**
	G1/8	Lever	Lever	±14°	16 N	Std.	0,18	**P2LAX71111**
	G1/4	Pressure applied centre position Self centring		±12°	16 N	Std.	0,33	**P2LBX71211**
	G3/8			±16°	30 N	Std.	0,71	**P2LCX71311**
	G1/2			±16°	30 N	Std.	0,73	**P2LDX71411**

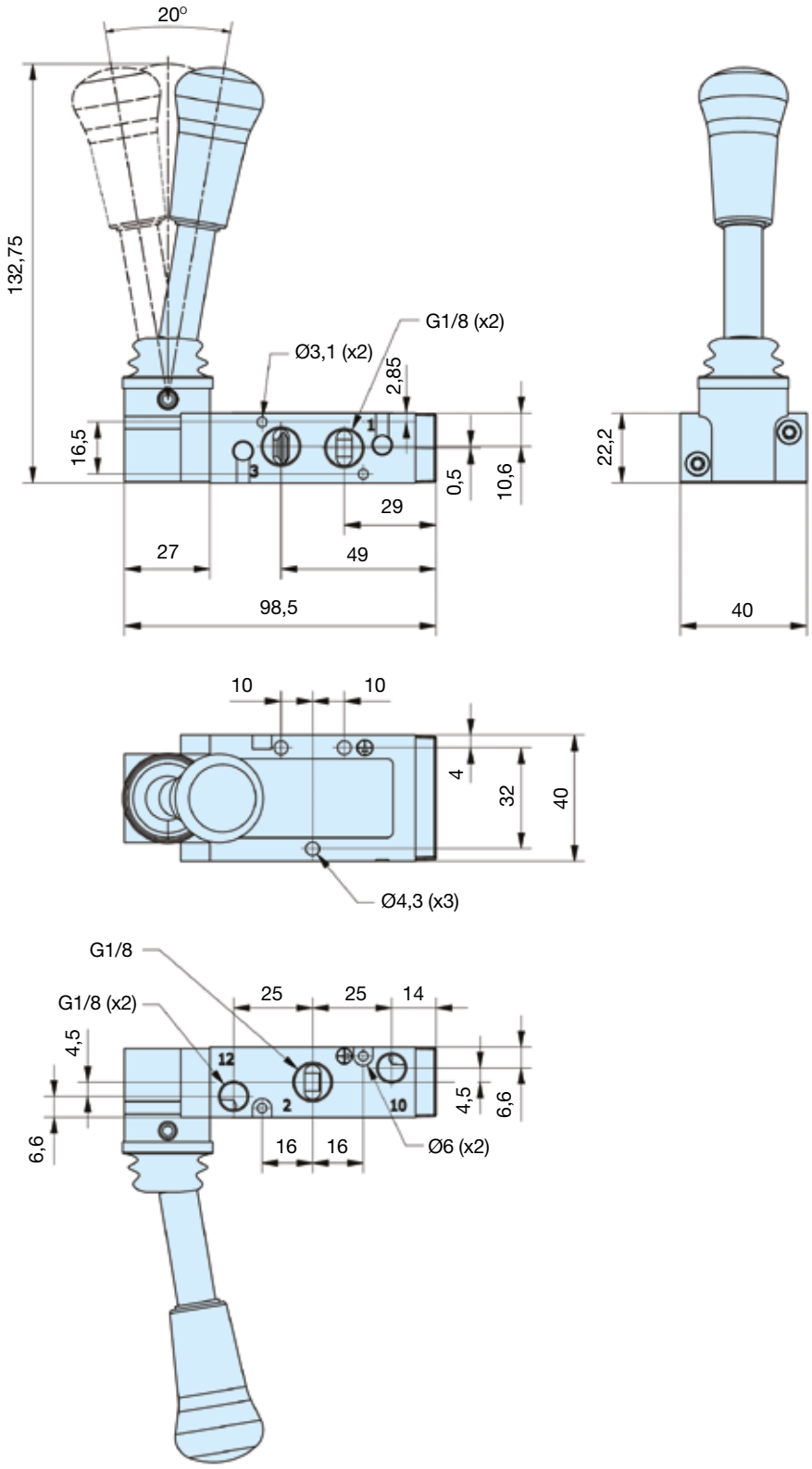
Lever operated directional control valves, lever in line with ports

Max operating pressure 16 bar. Temp range -40°C to +60°C

Symbol	Size	Actuation	Return	Changeover angle	Changeover Force	Type	Weight Kg	Order code
3/2 valves, temperature -40°C to +60°C, Lever In Line with ports								
	G1/4	Lever	Lever	26°	18 N	Std.	0,42	**P2LBX312ZZ**
	G1/4	Lever	Spring	26°	18 N	Std.	0,42	**P2LBX312ZS**
5/2 valves, temperature -40°C to +60°C, Lever In Line with ports								
	G1/4	Lever	Lever	26°	18 N	Std.	0,45	**P2LBX512ZZ**
	G1/4	Lever	Spring	26°	18 N	Std.	0,45	**P2LBX512ZS**
5/3 valves, temperature -40°C to +60°C, Lever In Line with ports								
	Closed centre position self centering G1/4	Lever	Lever	15° / 15°	24 N	Std.	0,51	**P2LBX61255**
	Pressure applied centre position self centering G1/4	Lever	Lever	15° / 15°	24 N	Std.	0,51	**P2LBX71255**
	Exhausted centre position self centering G1/4	Lever	Lever	15° / 15°	24 N	Std.	0,51	**P2LBX81255**
	Closed centre position held in three positions G1/4	Lever	Lever	15° / 15°	18 N	Std.	0,48	**P2LBX61266**
	Pressure applied centre position held in three positions G1/4	Lever	Lever	15° / 15°	18 N	Std.	0,48	**P2LBX71266**
	Exhausted centre position held in three positions G1/4	Lever	Lever	15° / 15°	18 N	Std.	0,48	**P2LBX81266**

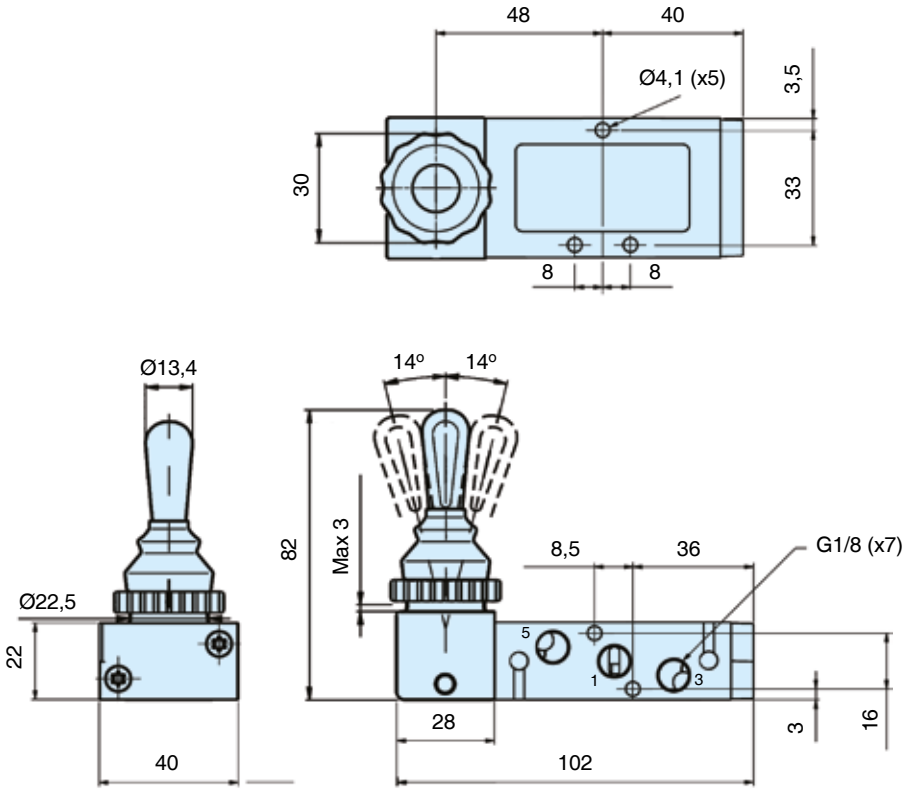
Dimensions

P2LAX - 3/2 Lever operated directional control valves



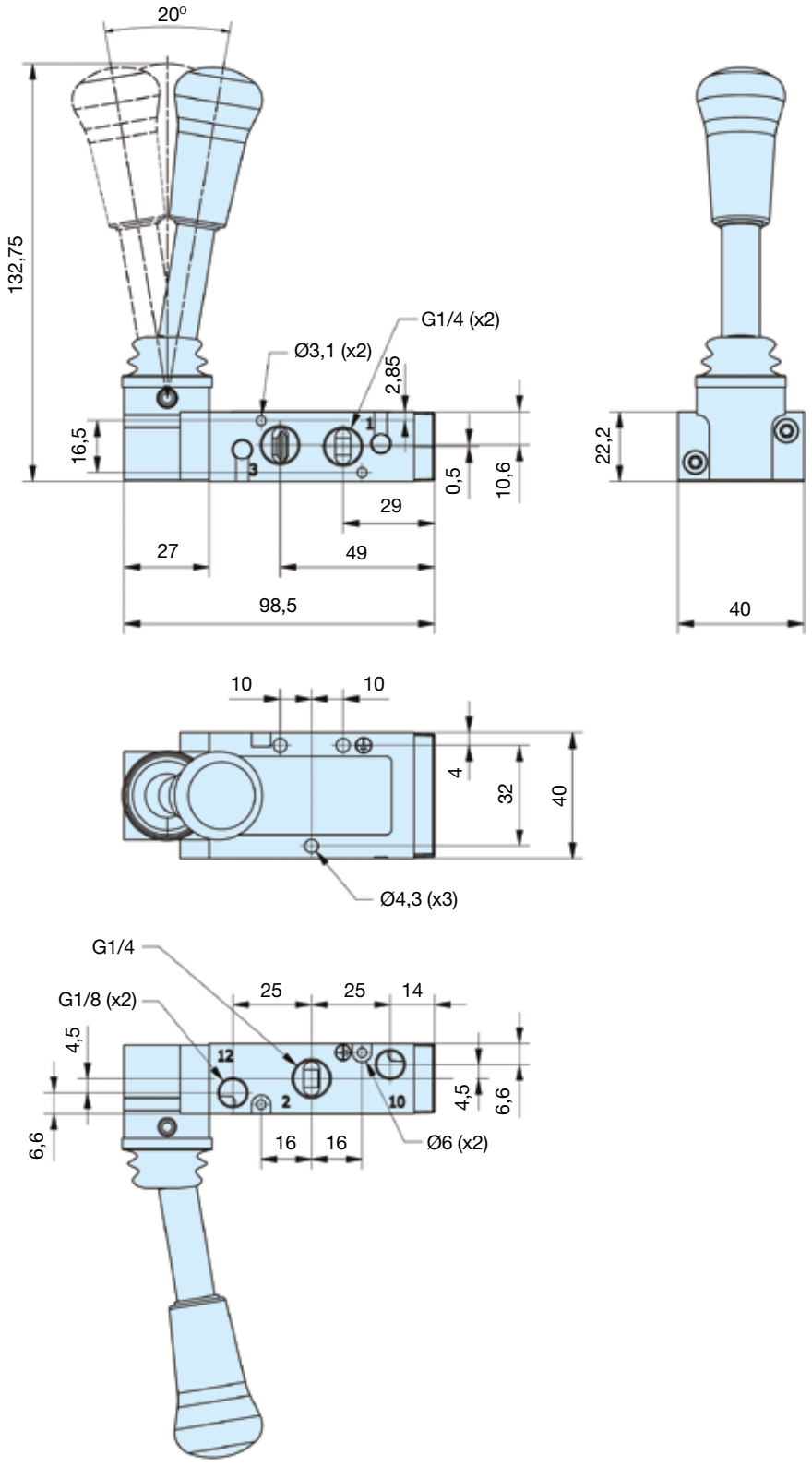
Dimensions

P2LAX - 5/2 & 5/3 Lever operated directional control valves



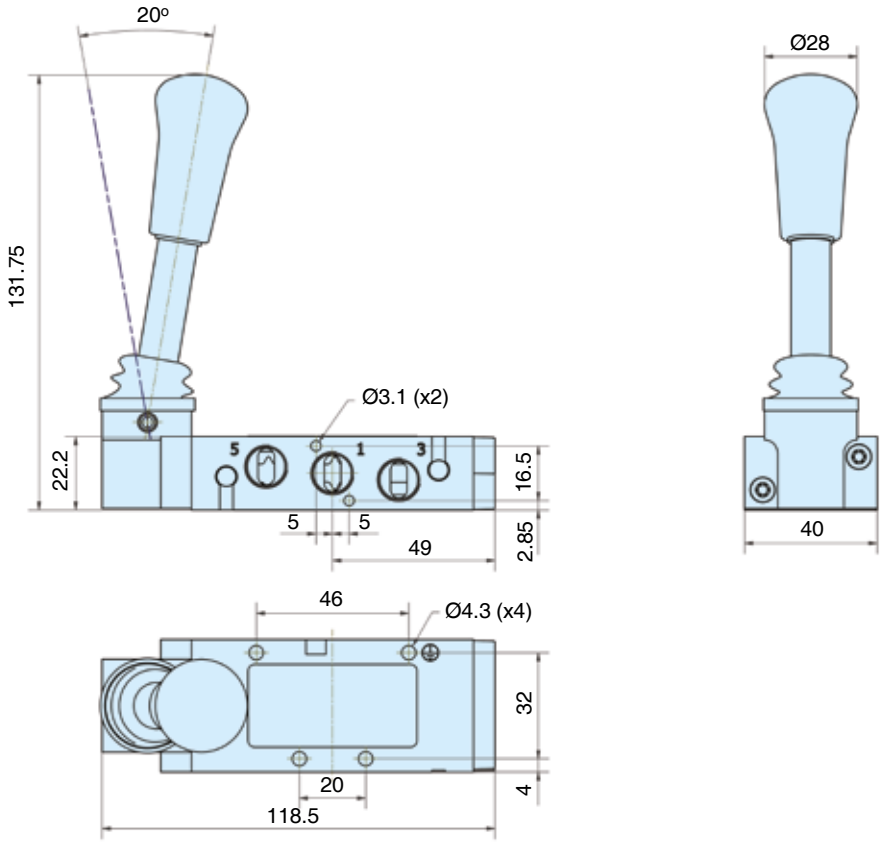
Dimensions

P2LBX - 3/2 Lever operated directional control valves

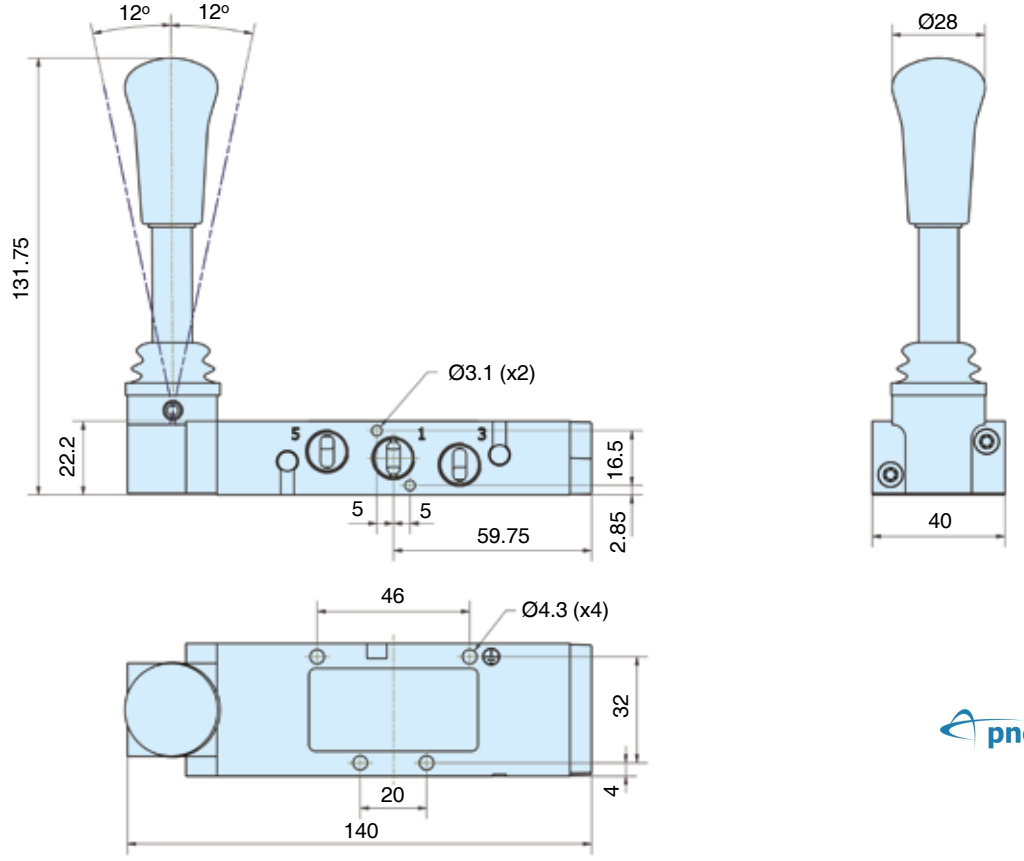


Dimensions

P2LBX - 5/2 Lever operated directional control valves

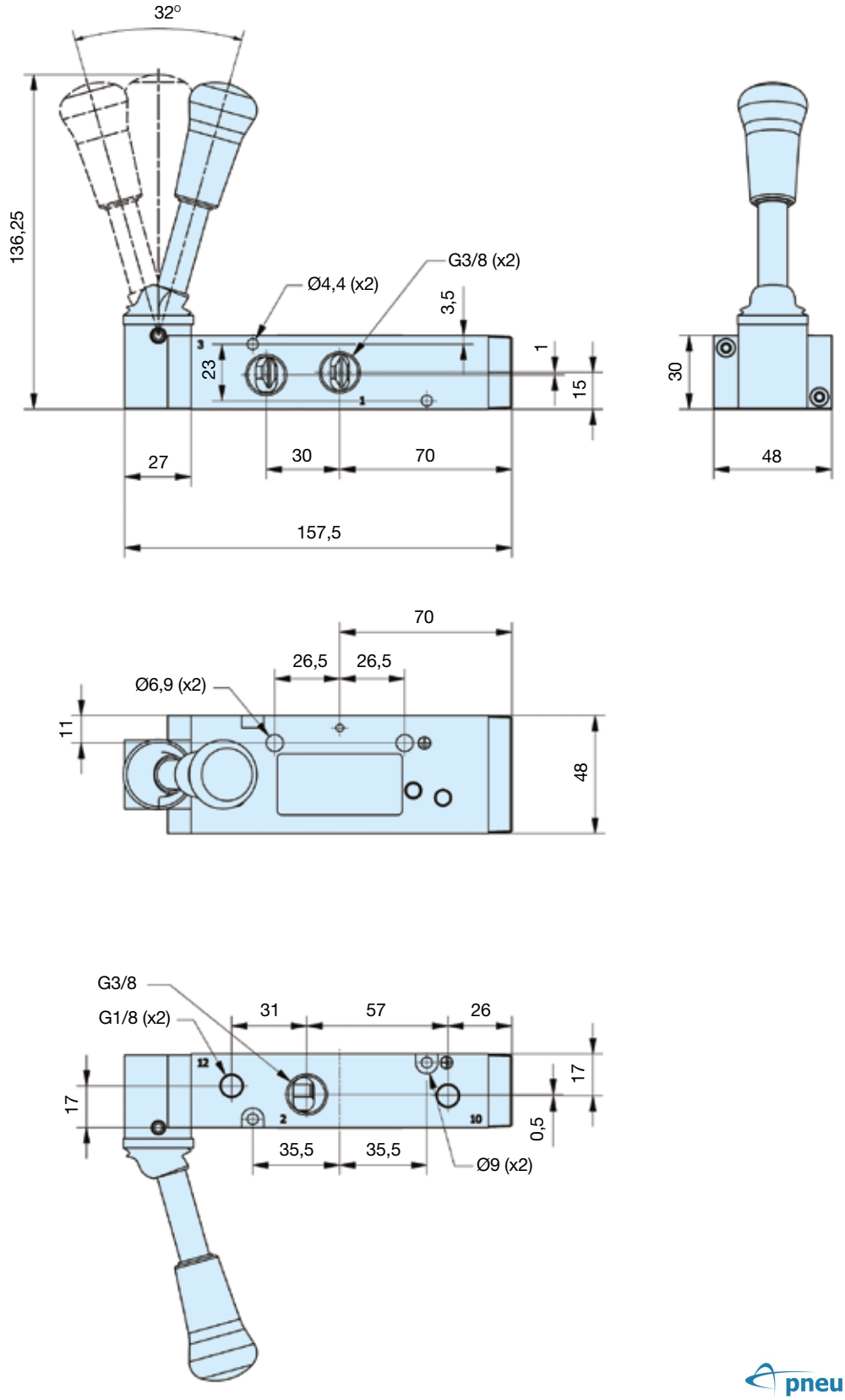


P2LBX - 5/3 Lever operated directional control valves



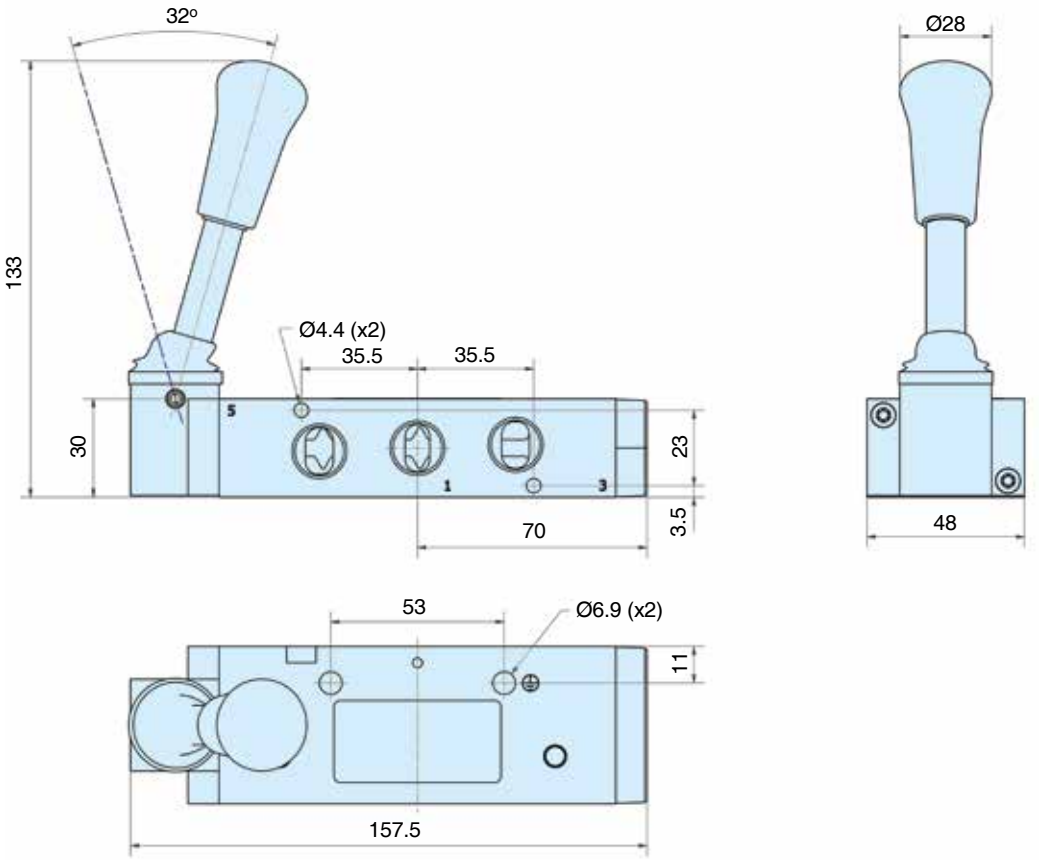
Dimensions

P2LCX - 3/2 Lever operated directional control valves

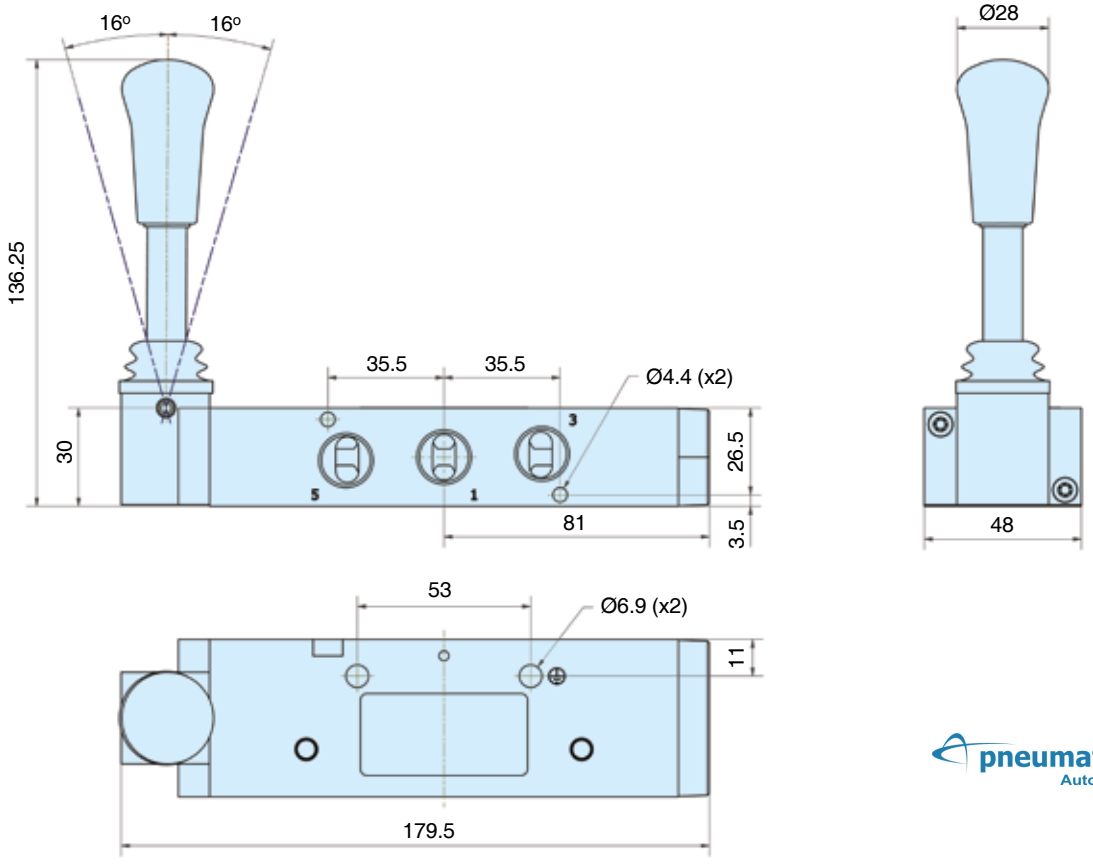


Dimensions

P2LCX - 5/2 Lever operated directional control valves

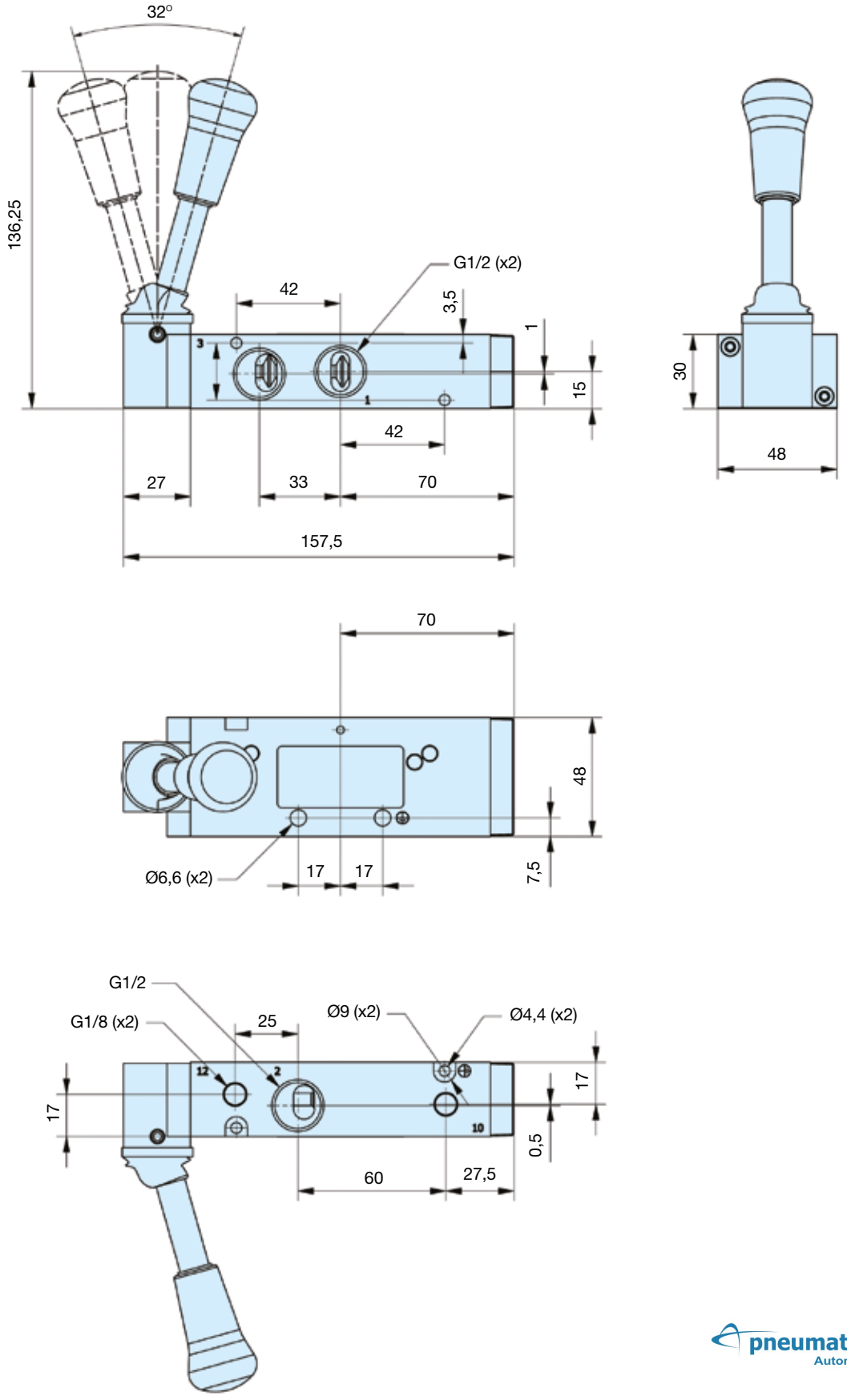


P2LCX - 5/3 Lever operated directional control valves



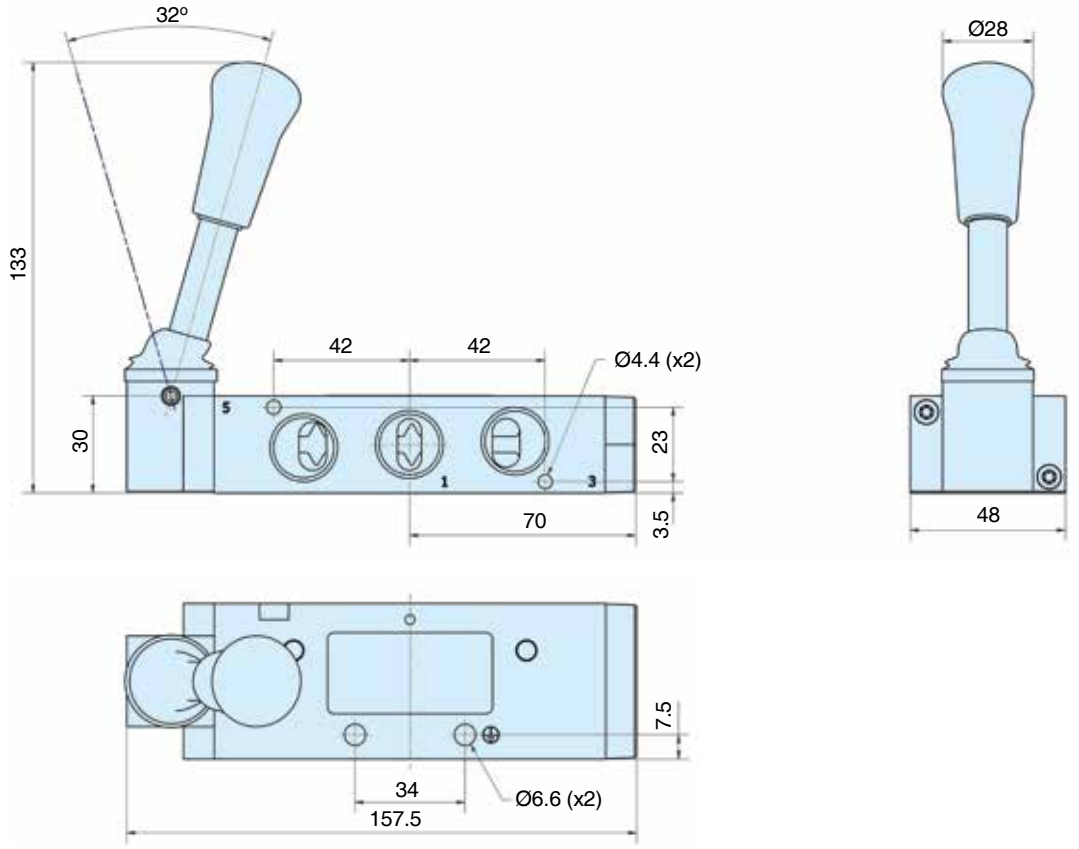
Dimensions

P2LDX - 3/2 Lever operated directional control valves

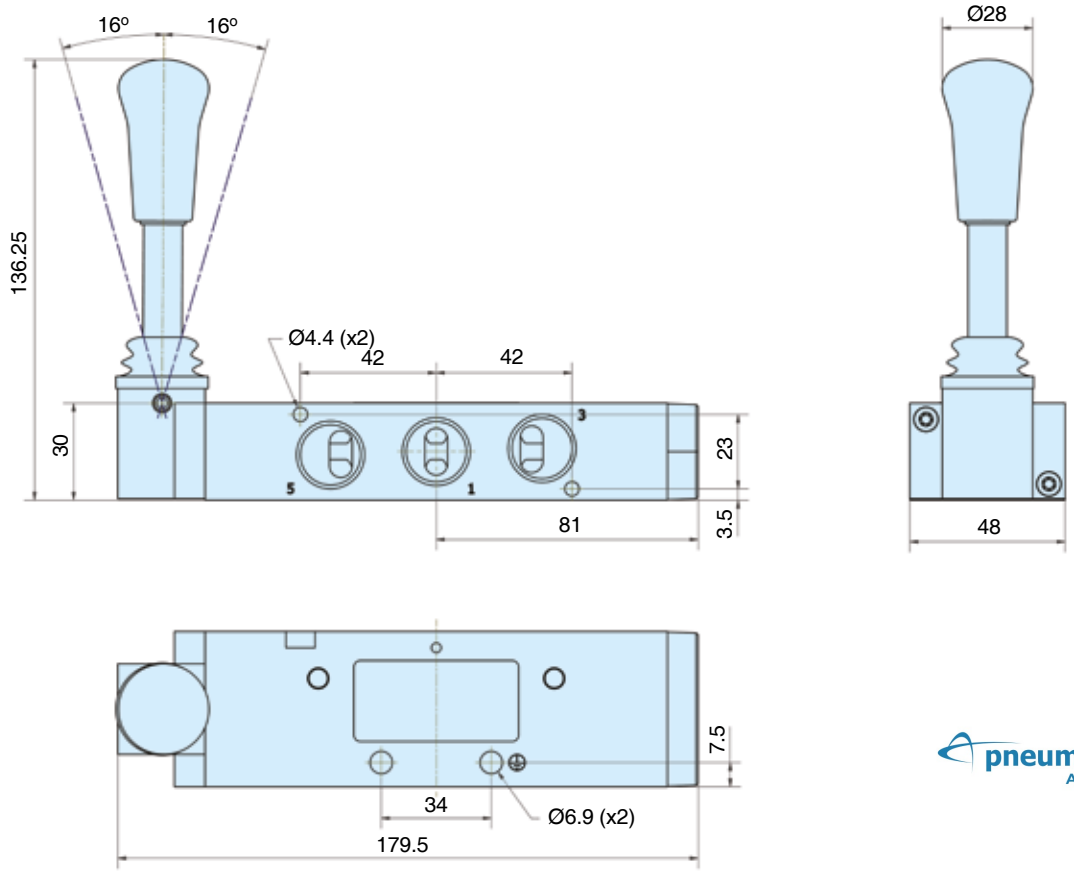


Dimensions

P2LDX - 5/2 Lever operated directional control valves

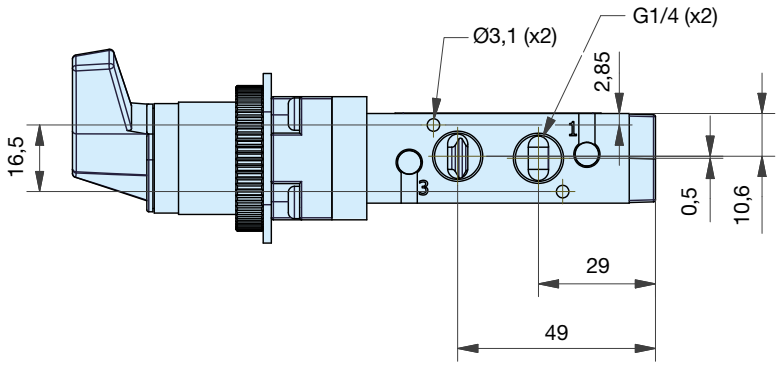


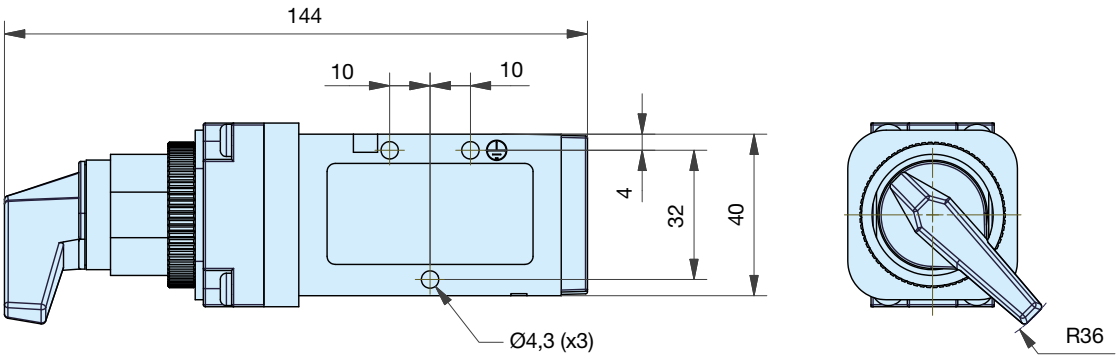
P2LDX - 5/3 Lever operated directional control valves

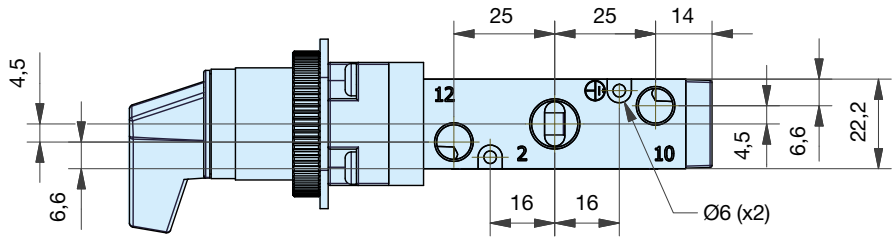


Dimensions

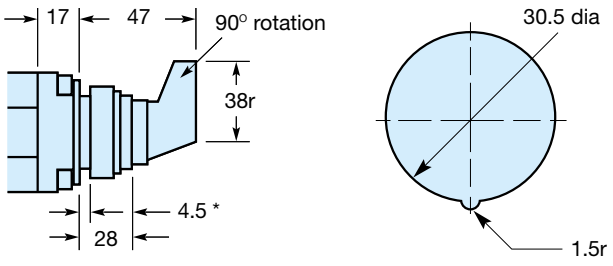
P2LBX - 3/2 Twist operated directional control valves







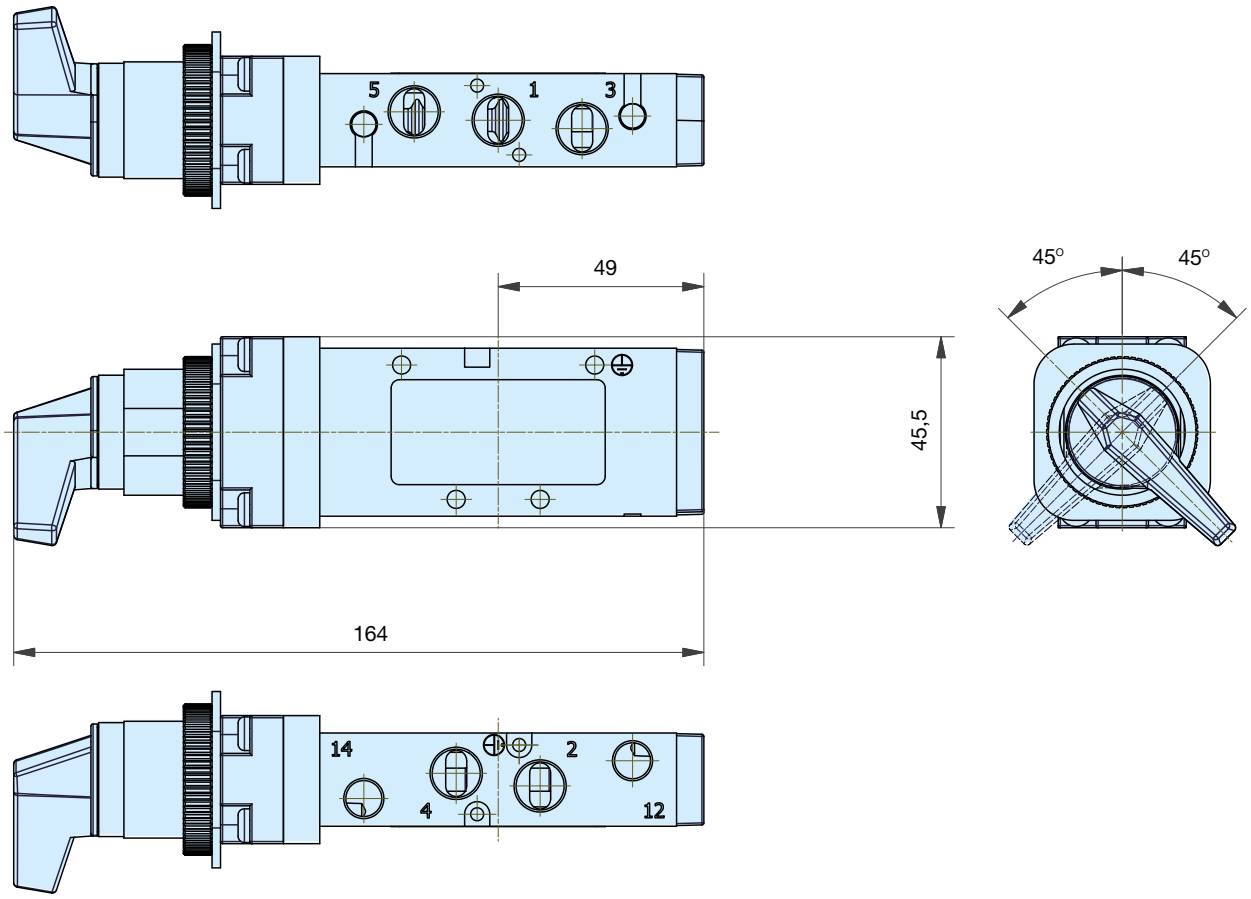
Panel cut-out details



* Max panel thickness

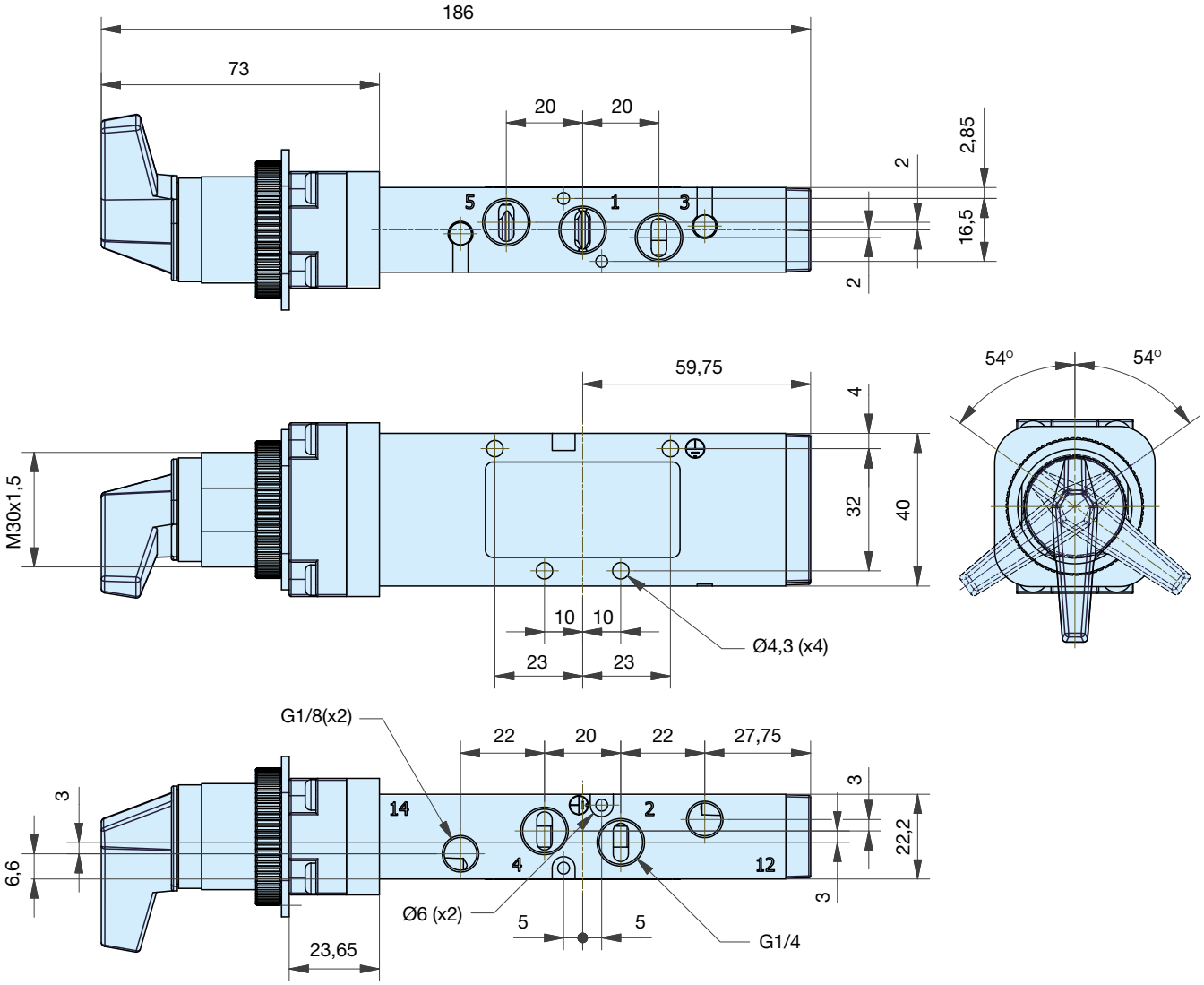
Dimensions

P2LBX - 5/2 Twist operated directional control valves



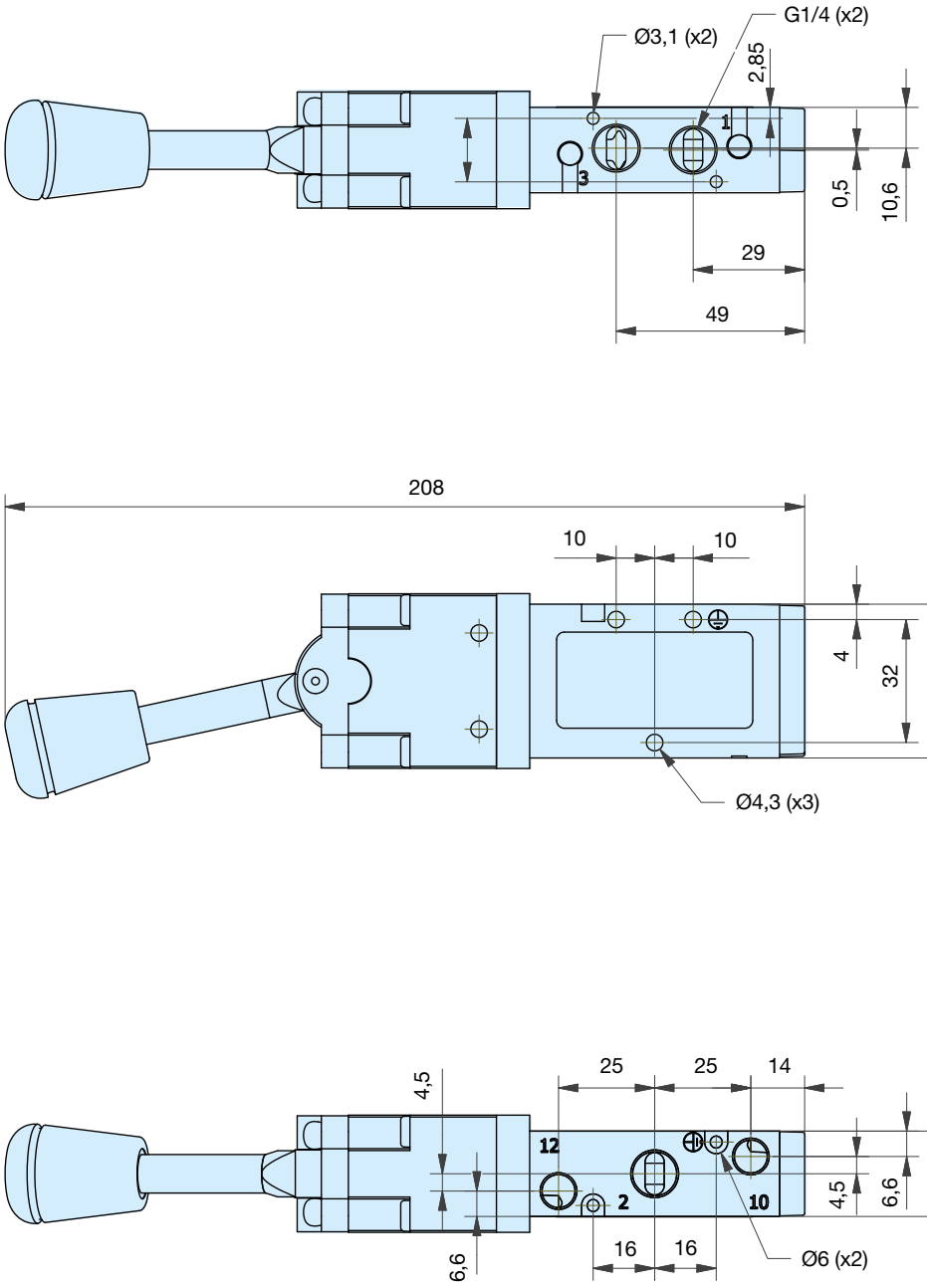
Dimensions

P2LBX - 5/3 Twist operated directional control valves



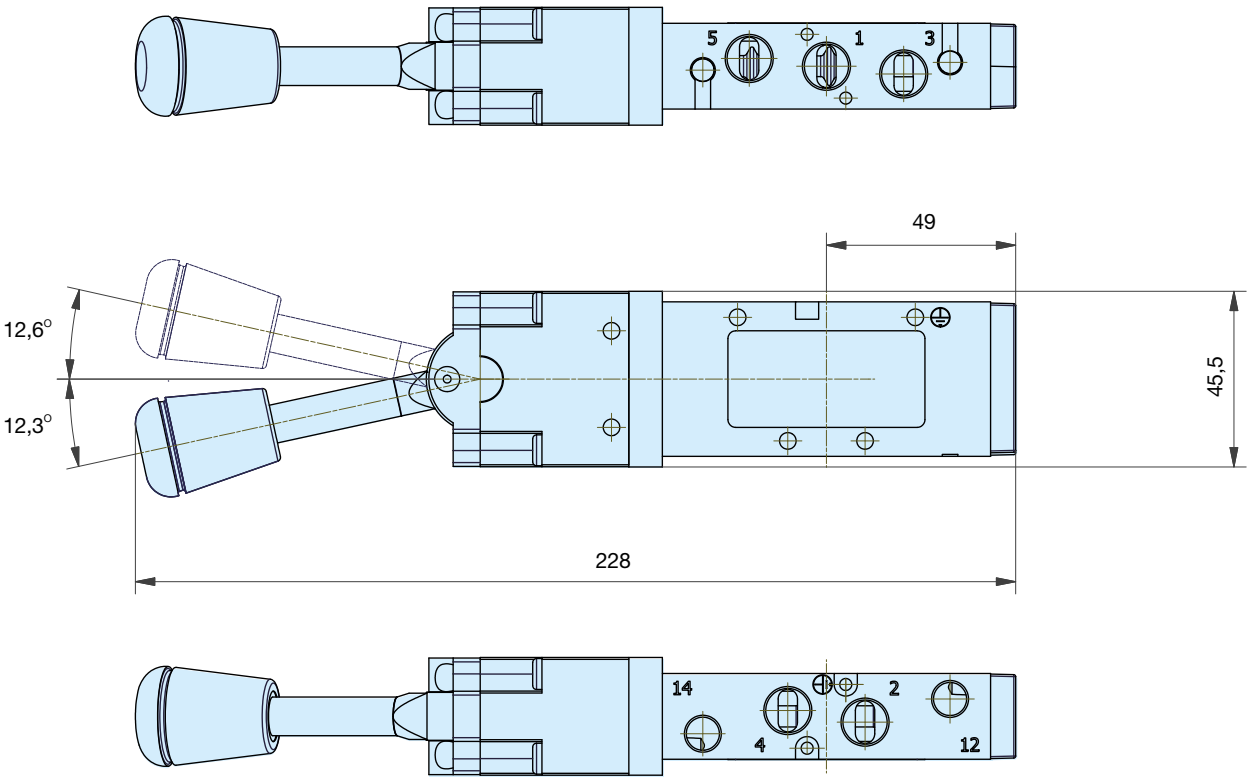
Dimensions

P2LBX - 3/2 Lever



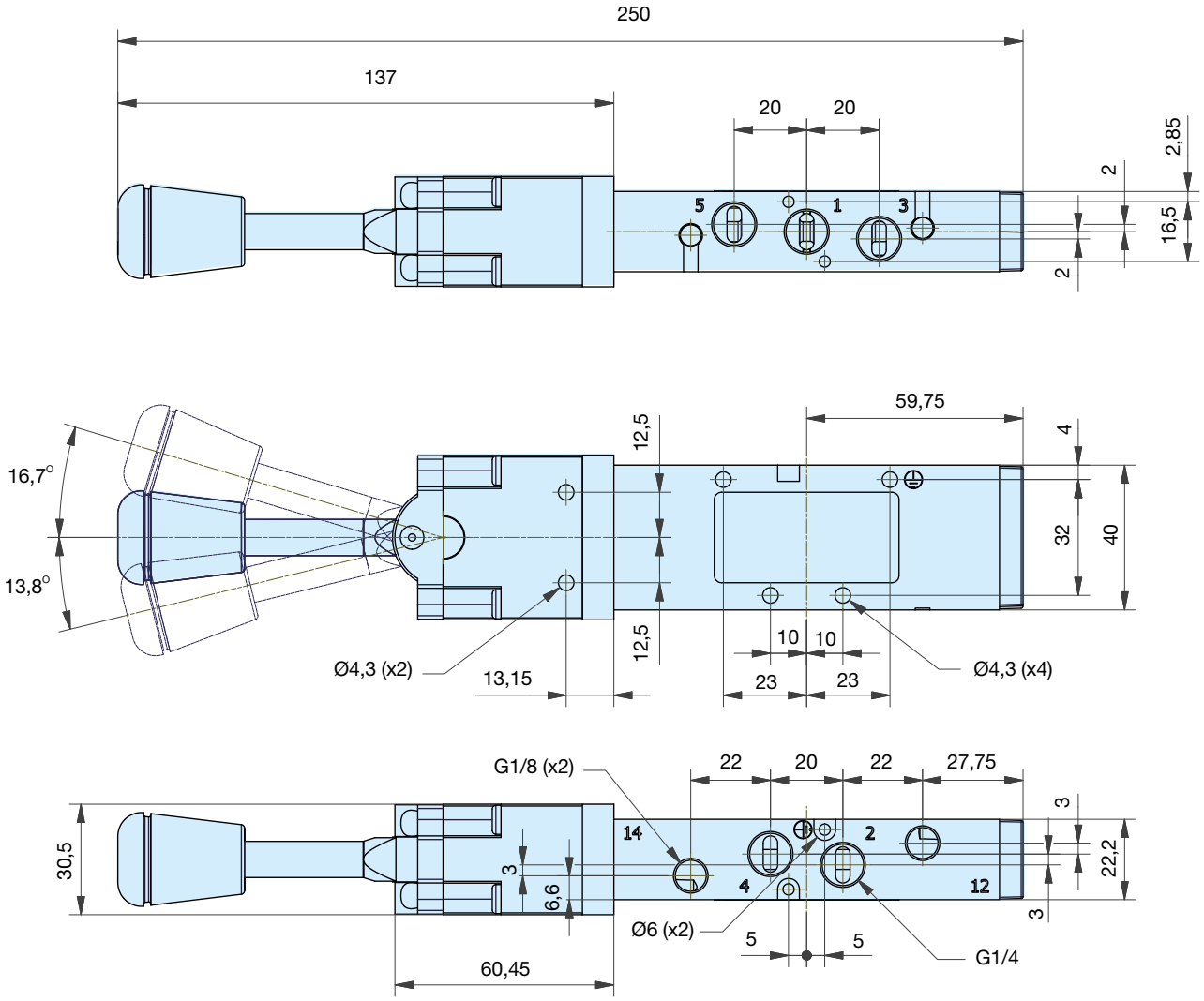
Dimensions

P2LBX - 5/2 Lever



Dimensions

P2LBX - 5/3 Lever



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