



Block & Bleed Cross Reference

This cross reference document identifies Piping and Instrumentation Diagrams (P&IDs) for Block and Bleed hygienic diaphragm valve configurations according to ITT design standards. A figure number code, description, P&ID symbol and 3D isometric image is included below for each valve type. Drawings are available on requests.

Figure Number Code	Description	P & ID	3D Isometric
BBD	Block and Bleed With Drain Valve	P1- 	
BBV	Block and Bleed With vent valve	P3	
BBD VP	Block and Bleed with drain and vent port valve	P4 P1- >> - ->>	

Block and Bleed Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
BBV DP	Block and Bleed with vent and drain port valve	P4 P1->	
BBDV	Block and Bleed with drain and vent valve	P4 X P1 - P2 P3	
VSPEC:	Special Block and Bleed valves	Customer Supplied	

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Divert Valves Cross Reference

This cross reference document identifies Piping and Instrumentation Diagrams (P&IDs) for hygienic diaphragm divert valve configurations according to ITT design standards. A figure number code, description, P&ID symbol and 3D isometric image is included below for each valve type. Drawings are available on requests.

Figure Number Code	Description	P & ID	3D Isometric
DV2W	2 way divert valve (horizontal and vertical)	P1	0000
DV3W	3 way divert valve (vertical)	P1 X X X P2 P3 P4	
DV4W	4 way divert valve (vertical)	P1 X X X P2 P3 P4 P5	

Divert Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
DV5W	5 way divert valve (vertical)	P1	
DV6W	6 way divert valve (vertical)	P1	
DV7W	7 way divert valve (vertical)	P1	9.6.
DV8W	8 way divert valve (vertical)	P1	

Divert Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
HDV3W	3 way divert valve (horizontal, Available in right and left hand)	P1 - P2 P1 - P3 - P4	
VSPEC:	Special divert valves (horizontal and vertical)	Customer Supplied	

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Front Facing Valve Cross Reference

This cross reference document identifies Piping and Instrumentation Diagrams (P&IDs) for Front Facing hygienic diaphragm valve configurations according to ITT design standards. Front facing valves are an ideal solution for installation in areas where space is limited (for example against a wall). A figure number code, description, P&ID symbol and 3D isometric image is included below for each valve type. Drawings are available on requests.

Figure Number Code	Description	P & ID	3D Isometric
ISG FF	Integral sterile access (front facing) valve (available in right hand and left hande)	P1-X-P2 X- P3	
INV ISG FF	Inverted integral sterile access (front facing) valve (available in right hand and left hand)	P3 V P1 – V P2	0 30

Front Facing Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
BBD FF	Block and Bleed with drain (front facing) valve	P1 - P2 X P3	
BBV FF	Block and Bleed with vent (front facing) valve	P3 \(\frac{1}{2} \) P1-\(\frac{1}{2} \) P2	
DV3W FF	3 way divert (front fac- ing) valve (vertical)	P1 X X X P2 P3 P4	
ZSBBS FF	Zero static with sample (front facing) valve	P1——— P2 —————————————————————————————————	

Front Facing Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
ZDP FF	Zero static downstream purge (front facing) valve (right and left handed)	P1——P2 ——P4 P3	9.00
ZID FF	Zero static inverted with drain (front facing) valve (right and left handed)	P3 ————————————————————————————————————	0
IDSA FF	Integral dual sterile access (front facing) valve (orientation down down (DD))	P1 - P2	
IDSA FF	Integral dual sterile access (front facing) valve (orientation up up (UU))	P3 P4 X X P1 - P2	

Front Facing Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
VSPEC:	Special (front facing) valves	Customer Supplied	

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Integral Sterile Access Valve Cross Reference

This cross reference document identifies Piping and Instrumentation Diagrams (P&IDs) for Integral Sterile Access hygienic diaphragm valve configurations according to ITT design standards. A figure number code, description, P&ID symbol and 3D isometric image is included below for each valve type. Drawings are available on requests.

Figure Number Code	Description	P & ID	3D Isometric
ISG	Integral sterile access valve (available in right hand, left hand, right right and left left)	P1- 	
INV ISG	Inverted integral sterile access valve (available in right hand and left hand)	P3	
IHSA	Integral horizontal sterile access valve (available in right hand and left hand)	P1 - > - P2 	0 00

Integral Sterile Access Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
IDSA	Integral dual sterile access valve (orienta- tion down down (DD), vertical and horizontal installation available)	P1 - P2	
IDSA	Integral dual sterile access valve (orientation up up (UU), vertical and horizontal installation available)	P3 P4	
IDSA	Integral dual sterile access valve (orientation down up (DU), vertical and horizontal installation available)	P4 X P1 - P2 P3	
IDSA	Integral dual sterile access valve (orientation up down (UD), vertical and horizontal installation available)	P3 X P1 - P2 X P4	

Integral Sterile Access Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
IDSA	Integral dual sterile access valve (orientation 'P1' down down (DD), vertical and horizontal installation available)	P1 — P2	
IDSA	Integral dual sterile access valve (orientation 'P2' down down (DD), vertical and horizontal installation available)	P1 - P2 X X P3 P4	
IDSA	Integral dual sterile access valve (orientation 'P1' up up (UU), vertical and horizontal installation)	P3 P4	
IDSA	Integral dual sterile access valve (orientation 'P2' up up (UU))	P3 P4	

Integral Sterile Access Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
IDSA	Integral dual sterile access valve (orienta- tion 'P1' up down (UD), vertical and horizontal installation available)	P3 P1 - P2 P4	9.0
IDSA	Integral dual sterile access valve (orienta- tion 'P2' up down (UD), vertical and horizontal installation available)	P3 P1	
VSPEC: IDSA	Specail integral dual sterile access valves (horizontal and vertical)	Customer Suppied	

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Special Valve Cross Reference

This cross reference document identifies Piping and Instrumentation Diagrams (P&IDs) for Special hygienic diaphragm valve configurations according to ITT design standards. A figure number code, description, P&ID symbol and 3D isometric image is included below for each valve type. Drawings are available on requests.

Figure Number Code	Description	P & ID	3D Isometric
ВР	By pass valve (0.18 inches [4,6mm] i.d. bypass typ.)	P1 ***	
VSPEC	Dual inline valve (horizontal and vertical)	P1 -├╳┤ P2	
M90	90 degree 2 way valve	P1— 7 P2	

Special Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
CHN	Chromatography without by pass valve	P1 P3 — P4 P2	٥٥٥
CHRO	Chromatography with by pass valve	P1 P3 — P4 P2	
CRO	Crossover vertically drainable valve (vertical)	P1 P2	
CROD	Crossover horizontally drainable valve (horizontal)	P1 P2	9,000

Special Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
VSPEC	Chromatography with by pass valve	P1 P3 — P4 P2	.0.0
DF	Dual flow valve	P1 *** X P2	
SB1	Sterile barrier valve	P3	
TBV	Tank bottom valve	P1	0

Special Valves Continued

Figure Number Code	Description	P & ID	3D Isometric
VSPEC	Tank bottom valve with sample port (available above or below valve wier)	P2 P1	
VSPEC	Special tank bottom valve (horizontal or ver- tical, multiple valves)	Customer Supplied	
VSPEC	Special integral valve body valves (horizontal and vertical with multiple valves)	Customer Supplied	

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Zero Static Valve Cross Reference

This cross reference document identifies Piping and Instrumentation Diagrams (P&IDs) for Zero Static hygienic diaphragm valve configurations according to ITT design standards. A figure number code, description, P&ID symbol and 3D isometric image is included below for each valve type. Drawings are available on requests.

Figure Number Code	Description	P & ID	3D Isometric
ZSBT ZSBBT	Zero static block body tee valve (non faceted)	P1 — P2 P3	
Z90	Zero static block body tee valve with 90° mainline (right or left handed)	P1 — P2 P3	

Figure Number Code	Description	P & ID	3D Isometric
VSPEC	Zero static dual flow valve	P1 — P2 P3	
ZRB	Zero static reduced block body tee valve (mainline size smaller than valve size)	P1 — P2 P3	
HZS	Horizontal zero static block body tee valve	P1 — P2 P3	000
ZSBBT-BO ZSBT-BO	Zero static block body tee back outlet valve	P1 —— P2 —— P3	

Figure Number Code	Description	P & ID	3D Isometric
ZDI	Zero static dual inline valve	P1 — P2 — P2 — P3	9.3.
ZDPB	Zero static downstream purge valve (right and left handed), Purge Outlet below Purge weir	P1——P2 —————————————————————————————————	
ZDPT	Zero static downstream purge valve (right and left handed), Purge Outlet above Purge weir	P1——P2 ———P4 P3	
ZID	Zero static inverted with drain valve (right and left handed)	P3	3 .
ZIL	Zero static inline valve (multiple 2,3,4,5)	P1	5. 5.

Figure Number Code	Description	P & ID	3D Isometric
ZSBBS	Zero static back to back sample valve (right and left handed)	P1————————————————————————————————————	
ZSBV (RH)	Zero static block body tee vertical mainline valve (offset wier, fully drainable to right hand)	P2 ├──- P3 P1	
ZSBV (LH)	Zero static block body tee vertical mainline valve (offset wier, fully drainable to left hand)	P2 P3 ->>-↓ P1	
ZUD	Zero static upstream sample/downstream purge valve	P1—— P2 P5 ->>1—— P4 P3	

Figure Number Code	Description	P & ID	3D Isometric
VSPEC:	Special zero static valves	Customer Suppied	

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