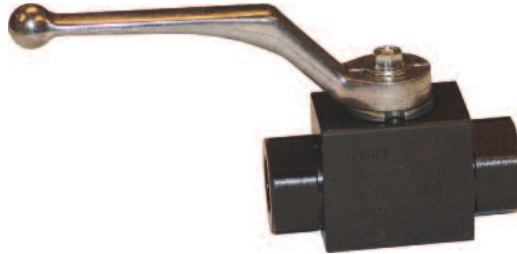


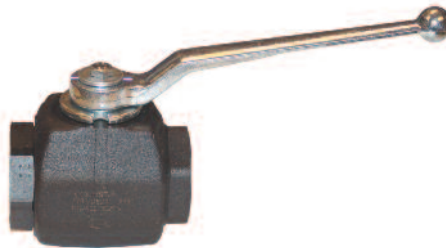
Hydraulic High Pressure 2 Way Ball Valves

Application: Hydraulics, particularly in construction and agricultural machinery, powerpacks and general hydraulic use.



Part Number: **BKH Series** - Barstock Steel

BSP (G), NPT (N), SAE, METRIC THREADS (L&S)						
DN (mm)	Bore	Thread	BAR	BSP Code	NPT Code	
4	5	1/8"	500	BKH 1113 G18	BKH 1113 N18	
6	6	1/4"	500	BKH 1113 G14	BKH 1113 N14	
10	10	3/8"	500	BKH 1113 G38	BKH 1113 N38	
13	13	1/2"	500	BKH 1113 G1213	BKH 1113 N12	
16	15	1/2"	500	BKH 1113 G1215	-	
20	20	3/4"	400	BKH 1113 G34	BKH 1113 N34	
25	24	1"	350	BKH 1113 G1	BKH 1113 N1	
32	24	1 1/4"	350	BKH 1113 G54	BKH 1113 N54	
40	24	1 1/2"	350	BKH 1113 G32	BKH 1113 N32	
Outside metric according to DIN 2353 L (light) or S (heavy)						
				Code Tube Size Light	Code Tube Size Heavy	
4	5	-	M12 x 1.5	500	BKH 1113 6L	-
6	6	-	M14 x 1.5	500	BKH 1113 8L	-
8	8	5	M16 x 1.5	500	BKH 1113 10L	BKH 1113 8S
10	10	6	M18 x 1.5	500	BKH 1113 12L	BKH 1113 10S
10	-	8	M20 x 1.5	500	-	BKH 1113 12S
13	13	10	M22 x 1.5	500	BKH 1113 15L	BKH 1113 14S
13	-	13	M24 x 1.5	500	-	BKH 1113 16S
16	15	-	M26 x 1.5	500	BKH 1113 18L	BKH 1113 20S
20	20	15	M30 x 2	400	BKH 1113 22L	BKH 1113 20S
25	24	20	M36 x 2	350	BKH 1113 28L	BKH 1113 25S
25	-	24	M42 x 2	350	-	BKH 1113 30S
32	24	-	M45 x 2	350	BKH 1113 35L	-
40	24	24	M52 x 2	350	BKH 1113 42L	BKH 1113 38S



Part Number: **SKH Series** - Forged Steel

BSP (G), NPT (N), SAE						
DN (mm)	Bore	Thread	BAR	BSP Code	NPT Code	
32	32	1 1/4"	420	SKH 3123 G54	SKH 2123 N54	
40	38	1 1/2"	420	SKH 3123 G32	SKH 3123 N32	
50	48	2"	420	SKH 3123 G2-2PC	SKH 3123 N2	
50	48	2"	420	SKH 1113 G2-3PC	-	
				Code Tube Size Light	Code Tube Size Heavy	
32	32		M45 x 2	420	SKH 2123 35L	SKH 2123 38S
40	38		M52 x 2	420	SKH 2123 42L	-

Technical Data

Materials

BKH series barstock carbon steel, black phosphated, Polyamide/BUNA seals as standard

SKH series forged steel, black phosphated, Polyamide/BUNA seals as standard

Operating Pressure

See table

Safety Factor

1.5

Operating Temperature

-15°C - to +80°C

Additional Options

Zinc plated and yellow bichromated steel.

Forged steel bodies, DELRIN/BUNA, VITON, EPDM and PTFE seals

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Special Request

Outside metric according to DIN 2353 L (light) or S (heavy) available to order

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic Ultra High Pressure 2 Way Ball Valves

Application: For use with pressures up to 800 BAR



Part Number: **HRKH Series**

DN (mm)	Bore	Thread	BAR	Carbon Steel	Stainless Steel
6	6	1/4"	800	HRKH 3723 N14	HRKH 4423 N14
10	6	3/8"	800	HRKH 3723 N38	HRKH 4423 N38
13	9	1/2"	800	HRKH 3723 N12	HRKH 4423 N12
20	13	3/4"	800	HRKH 3723 N34	HRKH 4423 N34
25	17	1"	800	HRKH 3723 N1	HRKH 4423 N1
40	40	1 1/2"	700	HRKH 3723 N112	HRKH 4423 N112

Technical Data

Materials

Carbon steel or stainless steel bodies
Polyamide/BUNA seals

Operating Pressure

See table

Operating Temperature

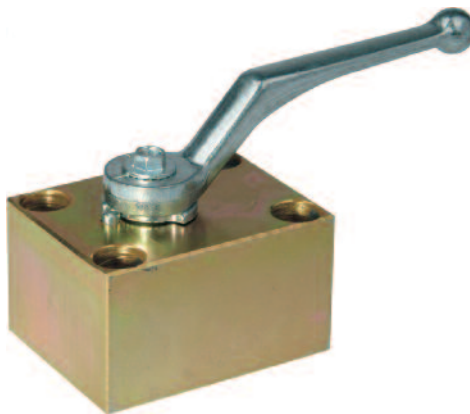
-15°C - to +80°C

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic 2 Way Manifold Mount

Application: General hydraulics, marine hydraulics, engineering machinery and manifolds.



Part Number: **BKHU**

2/2-way valve

DN (mm)	BAR	Part Number
6	500	BKHU 1123 DN6
10	500	BKHU 1123 DN10
13	500	BKHU 1123 DN13
20	400	BKHU 1123 DN20
25	400	BKHU 1123 DN25
32	315	BKHU 1123 DN32
40	315	BKHU 1123 DN40
50	315	BKHU 1123 DN50

Technical Data

Materials

Carbon steel, black phosphated,
Polyamide/BUNA seals as standard

Operating Pressure

See table

Safety Factor

1.5

Operating Temperature

-15°C - to +80°C

Additional Options

Zinc plated and yellow bichromated steel.

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic 316 Stainless Steel High Pressure 2 Way Ball Valves



Part Number: **RKH Series** - Full Bore

DN (mm)	Bore	Thread	BAR	Code BSP	Code NPT
6	6	1/4"	400	RKH 4423 G14	RKH 4423 N14
10	10	3/8"	400	RKH 4423 G38	RKH 4423 N38
13	13	1/2"	400	RKH 4423 G12	RKH 4423 N12
20	20	3/4"	400	RKH 4423 G34	RKH 4423 N34
25	24	1"	400	RKH 4423 G1	RKH 4423 N1
25	24	1 1/4"	400	RKH 4423 G5425	RKH 4423 N5425
25	24	1 1/2"	400	RKH 4423 G3525	RKH 4423 N3225
32	32	1 1/4"	350	RKH 4423 G5432	RKH 4423 N5432
40	38	1 1/2"	350	RKH 4423 G3240	RKH 4423 N3240
50	48	2"	350	RKH 4423 G2	RKH 4423 N2

Technical Data

Materials

316 stainless steel
Seals: DELRIN, BUNA

Operating Pressure

See table

Operating Temperature

-15°C - to +80°C

Special Requests

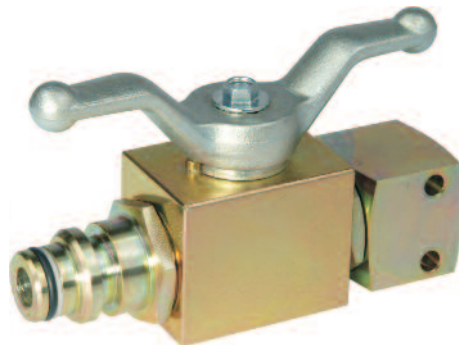
NPT and SAE threads DIN 2352 Light/Heavy connections available on request.
For assistance, contact our technical office.

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic Staple Lock 2 Way Ball Valves

Application: Hydraulic ball valves for use with staple lock connections.
Used extensively in the mining industry.



Part Number: **BBKH Series**

DN (mm)	BAR	Female / Female		Male / Female	
		Part Number	Part Number	Part number	Part number
10	500	BBKH 1123 F/F DN10	BBKH 1123 F/F DN10	BBKH 1123 M/F DN10	BBKH 1123 M/F DN10
13	500	BBKH 1123 F/F DN13	BBKH 1123 F/F DN13	BBKH 1123 M/F DN13	BBKH 1123 M/F DN13
20	400	BBKH 1123 F/F DN20	BBKH 1123 F/F DN20	BBKH 1123 M/F DN20	BBKH 1123 M/F DN20
25	350	BBKH 1123 F/F DN25	BBKH 1123 F/F DN25	BBKH 1123 M/F DN25	BBKH 1123 M/F DN25

Technical Data

Materials

BBKH series barstock carbon steel, black phosphated, Polyamide/BUNA seals as standard

Operating Pressure

See table

Safety Factor

1.5

Operating Temperature

-15°C - to +80°C

Additional Options

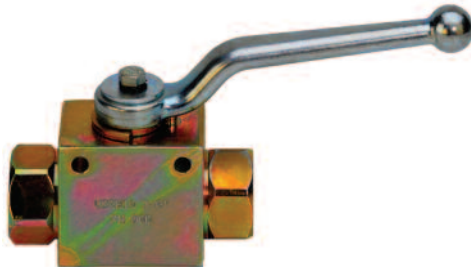
Zinc plated and yellow bichromated steel.
Forged steel bodies, DELRIN/BUNA, VITON, EPDM and PTFE seals

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic High Pressure 2 Way Ball Valves (with fixing holes)

Connections: 1/4 - 1 1/2 BSP Female



Part Number: **VF2 Series** - 2-Way

DN (mm)	Thread	BAR	Carbon Steel
6	1/4"	500	VF2 1113 G14
10	3/8"	500	VF2 1113 G38
13	1/2"	500	VF2 1113 G12
20	3/4"	320	VF2 1113 G34
25	1"	320	VF2 1113 G1
25	1 1/4"	320	VF2 1113 G54
25	1 1/2"	320	VF2 1113 G32

Technical Data

Materials

Carbon steel, zinc passivated, BUNA
Ball seat: Delrin
Ball: Carbon Steel Nickel Plated

Operating Pressure

See table

Operating Temperature

-15°C - to +80°C

Special Requests

NPT and SAE threads DIN 2353 Light/Heavy connections available on request.
For assistance, contact our technical office.

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic High Pressure 2 Way Ball Valves (for panel mount - threaded stem)

Application: These valves feature a thread stem to facilitate installation on panels. The valve lever is all that is visible.



Part Number: **VF2-CR** - 2-Way

DN (mm)	Thread	BAR	Stem Thread (mm)	Part Number
6	1/4"	500	26 x 1.5	VF2-CR 1113 G14
10	3/8"	500	32 x 1.5	VF2-CR 1113 G38
13	1/2"	500	32 x 1.5	VF2-CR 1113 G12
20	3/4"	400	45 x 1.5	VF2-CR 1113 G34
25	1"	350	45 x 1.5	VF2-CR 1113 G1

Technical Data

Materials

Carbon steel, yellow passivated
Seals: Polyamide/BUNA
Ball Seat: Delrin
Ball: Carbon Steel, Nickel Plated

Operating Pressure

See table

Operating Temperature

-15°C - to +80°C

Special Requests

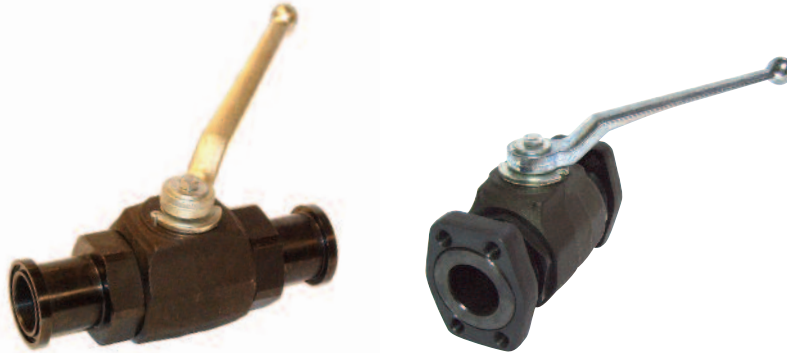
NPT and SAE threads DIN 2352 Light/Heavy available on request.
For assistance, contact our technical office.

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic 2 Way Ball Valves with SAE Flanges

Application: Hydraulics, ship building and engineering using either full or split SAE flanges.



Split Flange

DN (mm)	Bore	BAR	Part Number	Part number
13	1/2"	420	BKH 1123 3000S-12	BKH 1123 6000S-12
20	3/4"	420	BKH 1123 3000S-34	BKH 1123 6000S-34
25	1"	420	BKH 1123 3000S-1	BKH 1123 6000S-1
32	1 1/4"	420	SKH 3123 3000S-114	SKH 1123 6000S-114
40	1 1/2"	350	SKH 3123 3000S-112	SKH 1123 6000S-112
50	2"	350	SKH 3123 3000S-2	SKH 1123 6000S-2

Full Flange

DN (mm)	Bore	BAR	Part Number	Part number
13	1/2"	420	BKH 1123 3000-12	BKH 1123 6000-12
20	3/4"	420	BKH 1123 3000-34	BKH 1123 6000-34
25	1"	420	BKH 1123 3000-1	BKH 1123 6000-1
32	1 1/4"	420	SKH 3123 3000-114	SKH 3123 6000-114
40	1 1/2"	350	SKH 3123 3000-112	SKH 3123 6000-112
50	2"	350	SKH 3123 3000-2	SKH 3123 6000-2
65/50	2 1/2" - 2"	350	SKH 3123 3000-212	

*Trunnion Mounted

Technical Data

Materials

BKH series barstock carbon steel, black phosphated, Polyamide/BUNA seals as standard

SKH series forged steel, black phosphated, Polyamide/BUNA seals as standard

Operating Pressure

See table

Safety Factor

1.5

Operating Temperature

-15°C - to +80°C

Additional Options

Zinc plated and yellow bichromated steel.

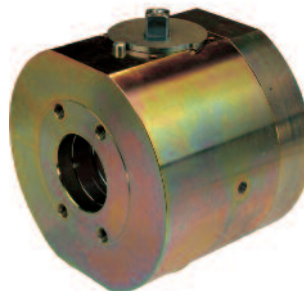
Forged steel bodies, DELRIN/BUNA, VITON, EPDM and PTFE seals

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic Wafer Ball Valve SAE Flanges

Application: ?



Part Number: **SAE 3000 ISO6162**
and **SAE 6000 ISO6162**

DN (mm)	Bore	SAE 3000		Part Number	Part Number
		PN	PN		
25	24	315	400	FCKH DN25 3923 SAE 3000	FCKH DN25 3923 SAE 3000
32	32	250	400	FCKH DN32 3923 SAE 3000	FCKH DN32 3923 SAE 3000
40	38	200	400	FCKH DN40 3923 SAE 3000	FCKH DN40 3923 SAE 3000
50	47.5	200	400	FCKH DN50 3923 SAE 3000	FCKH DN50 3923 SAE 3000
65	63	160	320	FCKH DN65 3923 SAE 3000	FCKH DN65 3923 SAE 3000
80	76	100	320	FCKH DN80 3923 SAE 3000	FCKH DN80 3923 SAE 3000
100	100	25	-	FCKH DN100 3923 SAE 3000	-
125	120	25	-	FCKH DN125 3923 SAE 3000	-

Technical Data

Materials

?

?

Operating Pressure

See table

Operating Temperature

?

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

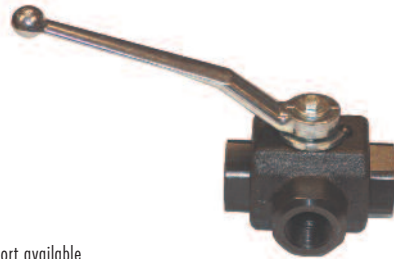
Hydraulic High Pressure 3 Way Diverter Ball Valves

Application: Hydraulics, particularly in construction and agricultural machinery. Powerpacks and general hydraulic use.



Part Number: **BK3 Series** - Barstock Steel - 'L' or 'T' Port available

DN (mm)	Bore	Thread	BAR	Code BSP	Code NPT
4	4	1/8"	400	BK3 1123 G18	-
6	6	1/4"	400	BK3 1123 G14	BK3 1123 N14
10	9	3/8"	400	BK3 1123 G38	BK3 1123 N38
13	11.5	1/2"	350	BK3 1123 G1213	BK3 1123 N12
15	14	1/2"	350	BK3 1123 G1215	



Part Number: **SK3 Series** - Forged Steel - 'L' or 'T' Port available

DN (mm)	Bore	Thread	BAR	Code BSP	Code NPT
20	18	3/4"	350	SK3 2123 G34	SK3 2123 N34
25	22	1"	350	SK3 2123 G1	SK3 2123 N1
32	22	1 1/4"	350	SK3 2123 G5425	SK3 2123 N5425
32	30	1 1/4"	350	SK3 2123 G5432	SK3 2123 N5432
40	25	1 1/2"	350	SK3 2123 G3225	SK3 2123 N3225
40	35	1 1/2"	350	SK3 2123 G3240	SK3 2123 N3240
50	44	2"	350	SK3 2123 G2	SK3 2123 N2

Technical Data

Materials

BK3 series barstock carbon steel, black phosphated, Polyamide/BUNA seals as standard

SK3 series forged steel, black phosphated, Polyamide/BUNA seals as standard

Operating Pressure

See table

Safety Factor

1.5

Operating Temperature

-15°C - to +80°C

Additional Options

Zinc plated and yellow bichromated steel. Forged steel bodies, Stainless steel options available. DELRIN/BUNA, VITON, EPDM and PTFE seals

Special Request

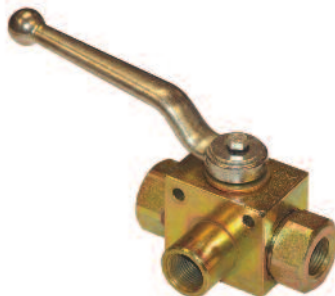
Outside metric according to DIN 2353 L (light) or S (heavy) available to order

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic High Pressure 3 Way Ball Valves (with fixing holes)

Connections: 1/4 - 1 1/2 BSP Female



Part Number: **VF3 Series** - 'L' or 'T' Port available

DN (mm)	Thread	BAR	Carbon Steel
6	1/4"	500	VF3 1113 G14
10	3/8"	500	VF3 1113 G38
13	1/2"	500	VF3 1113 G12
20	3/4"	250	VF3 1113 G34
25	1"	250	VF3 1113 G1
25	1 1/4"	250	VF3 1113 G54
25	1 1/2"	250	VF3 1113 G32

Please Note: Pressure connection must always be through centre port

Technical Data

Materials

Carbon steel, zinc passivated, BUNA

Ball seat: Delrin

Ball: Carbon Steel Nickel Plated

Operating Pressure

See table

Operating Temperature

-15°C - to +80°C

Special Requests

NPT and SAE threads DIN 2353 Light/Heavy connections available on request.

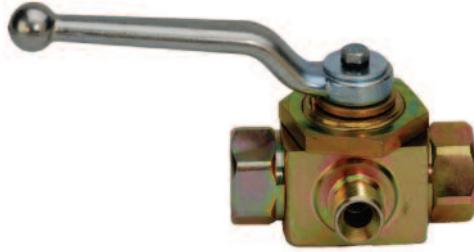
For assistance, contact our technical office.

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic High Pressure 3 Way Ball Valves (for panel mount - threaded stem)

Application: These valves feature a thread stem to facilitate installation on panels. The valve lever is all that is visible.



Part Number: **VF3-CR** - 3-Way

DN	Thread	BAR	Stem Thread (mm)	Part Number
6	1/4"	500	26 x 1.5	VF3-CR 1113 G14
10	3/8"	500	32 x 1.5	VF3-CR 1113 G38
13	1/2"	500	32 x 1.5	VF3-CR 1113 G12
20	3/4"	400	45 x 1.5	VF3-CR 1113 G34
25	1"	350	45 x 1.5	VF3-CR 1113 G1

Please Note: Pressure connection must always be through centre port

Technical Data

Materials

Carbon steel, yellow passivated
Seals: Polyamide/BUNA
Ball Seat: Delrin
Ball: Carbon Steel, Nickel Plated

Operating Pressure

See table

Operating Temperature

-15°C - to +80°C

Special Requests

NPT and SAE threads available on request.
For assistance, contact our technical office.

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic 316 Stainless Steel High Pressure 3 Way Ball Valves



Part Number: **RK3 Series**

DN	Bore	Thread	BAR	Part Number
06	6	1/4"	400	RK3 4423 G14
10	9	3/8"	400	RK3 4423 G38
13	12	1/2"	400	RK3 4423 G12
20	18	3/4"	320	RK3 4423 G34
25	22	1"	350	RK3 4423 G1
25	22	1 1/4"	350	RK3 4423 G5425

Technical Data

Materials

316 stainless steel
Seals: DELRIN, BUNA

Operating Pressure

See table

Operating Temperature

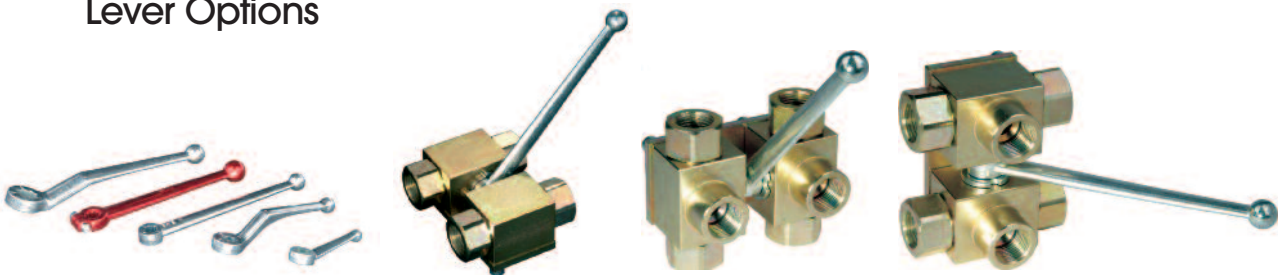
-15°C - to +80°C

Special Requests

NPT DIN 2353 Light/Heavy connections available on request.

For assistance, contact our technical office.

Lever Options



Hydraulic Multiway Ball Valves - MKH Series

Application: Hydraulics, particularly in construction and agricultural machinery and general hydraulic use.

3 Way and 4 Way Valves Barstock and Forged bodies



Part Number: **3KH Series** - 3 Ports

DN (mm)	Bore		Thread	BAR	Code BSP	Code NPT
	L+T	X				
6	6	5	1/4	500	3KH 1123 G14	3KH 1123 N14
10	9	8	3/8	500	3KH 1123 G38	3KH 1123 N38
13	13	12	1/2	400	3KH 2123 G12	3KH 2123 N12
20	19	18	3/4	400	3KH 2123 G34	3KH 2123 N34
25	24	22	1	350	3KH 2123 G1	3KH 2123 N1
25	24	22	1 1/4	350	3KH 2123 G5425	3KH 2123 N5425
25	24	22	1 1/2	350	3KH 2123 G3225	3KH 2123 N3225
40	36	33	1 1/2	63	3KH 9123 G3240	3KH 9123 N2340

Part Number: **4KH Series** - 4 Ports

DN (mm)	Bore		Thread	BAR	Code BSP	Code NPT
	L+T	X				
6	6	5	1/4	500	4KH 1123 G14	4KH 1123 N14
10	9	8	3/8	500	4KH 1123 G38	4KH 1123 N38
13	13	12	1/2	400	4KH 2123 G12	4KH 2123 N12
20	19	18	3/4	400	4KH 2123 G34	4KH 2123 N34
25	24	22	1	350	4KH 2123 G1	4KH 2123 N1
25	24	22	1 1/4	350	4KH 2123 G5425	4KH 2123 N5425
25	24	22	1 1/2	350	4KH 2123 G3225	4KH 2123 N3225
40	36	33	1 1/2	63	4KH 9123 G3240	4KH 9123 N3240

Technical Data

Materials

Available in 3 and 4 port versions
Carbon steel, black phosphated
Seals: DELRIN/BUNA

Operating Pressure

See table

Operating Temperature

-15°C - to +80°C

Special Requests

Prices shown apply to all standard valves with L, T or X ports. On request these valves are available with stainless bodies. Other seal materials such as Viton, EPDM, PTFE, etc on request Also available with metric threads. For assistance, contact our technical office.

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

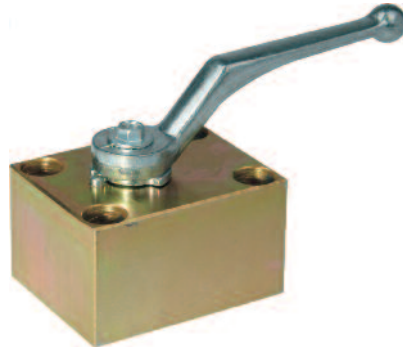
4KH Series

Special Notes

These valves are stocked in L, T and X ported configurations. There are 20 variations of port combinations available. Please contact our technical office to discuss your application

Hydraulic 3 Way Manifold Mount

Application: General hydraulics, marine hydraulics, engineering machinery and manifolds.



Part Number: **BKHU3** - 3-way valve

DN	BAR	Part Number
6	500	BKHU3 1123 DN6
10	500	BKHU3 1123 DN10
13	500	BKHU3 1123 DN13
20	400	BKHU3 1123 DN20
25	400	BKHU3 1123 DN25
32	315	BKHU3 1123 DN32
40	315	BKHU3 1123 DN40
50	315	BKHU3 1123 DN50

Technical Data

Materials

Carbon steel, black phosphated,
Polyamide/BUNA seals as standard
SKH series forged steel, black phosphated,
Polyamide/BUNA seals as standard

Operating Pressure

See table

Safety Factor

1.5

Operating Temperature

-15°C - to +80°C

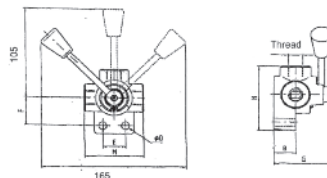
Additional Options

Zinc plated and yellow bichromated steel.
Forged steel bodies, DELRIN/BUNA, VITON,
EPDM and PTFE seals

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.

Hydraulic Cast Iron Diverter Valves



Part Number: **3 DV Series** - 3-Way Diverter Valves

Part Number	LPM	B	D	E	F	G	H	M
3 DV-G 3/8"	30	25	8.5	26	33	67	76	68
3 DV-G 1/2"	55	28	8.5	32	36	70	87	80
3 DV-G 3/4"	100	30	11	32	42	78	103	94
3 DV-G 34 HP	100	30	11	32	42	78	103	94

Technical Data

Materials

Cast iron diverter valves. 3 way valve open centre as standard, close centre on request

Operating Pressure

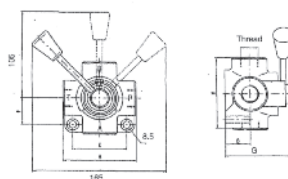
250 BAR as standard
330 BAR on request + HP to part number

Operating Temperature

-10°C - to +80°C

Special Notes

Valve numbers shown are for general hydraulic use, for other media and special requests please consult our technical office.



Part Number: **4 DV Series** - 4-Way Diverter Valves

Part Number	LPM	B	E	F	G	H
4 DV-G 3/8"	38	25.5	54	27	72	76
4 DV-G 1/2"	60	29.5	65	32.5	82	88