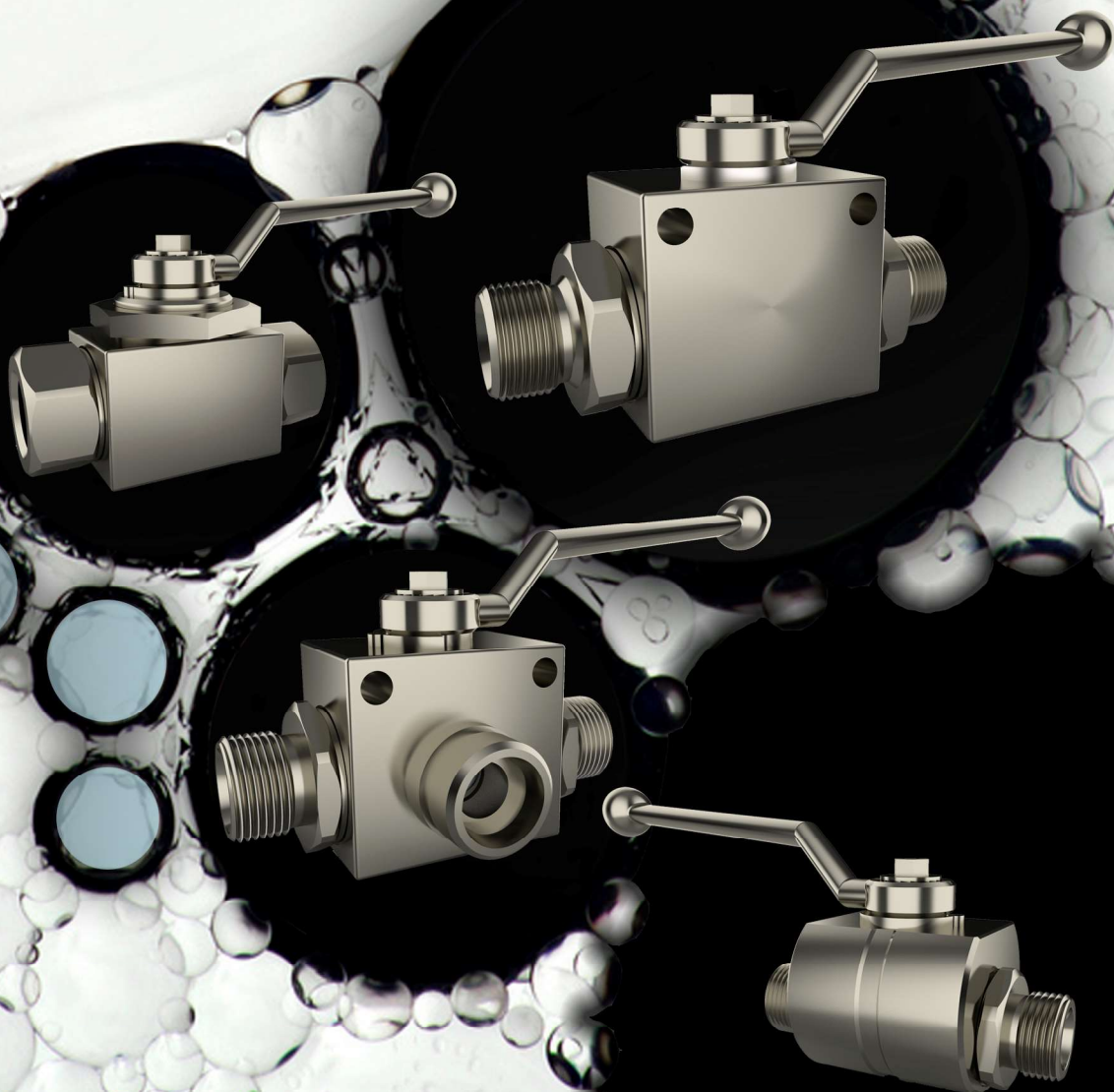




INTEVA

www.inteva.es

BALL VALVES



MANAGEMENT SYSTEM CERTIFICATE

Número de certificado:/Certificate No.:
282929-2019-AQ-IBE-ENAC

Fecha Inicial de Certificación:/Initial date:
22 febrero 2016

Validez:/Valid:
19 febrero 2019 - 19 febrero 2022

Se certifica que el sistema de gestión de/This is to certify that the management system of

INDUSTRIAS TECNICAS DE VALVULERIA,SA

C/ Berguedà,14-16 (Esq.Empordà), Pol. Ind. Can Bernardes - Subirà, 08130, Santa Perpetua de Mogoda, Barcelona, Spain

es conforme a la Norma del Sistema de Gestión de Calidad/
has been found to conform to the Quality Management System standard:

ISO 9001:2015

Este certificado es válido
para el siguiente campo de aplicación:

**Diseño, fabricación y comercialización de
acoples rápidos, válvulas antirretorno y
válvulas de cierre esférico.**

This certificate is valid
for the following scope:

**Design, manufacture and sales of quick
couplings, check valves and ball valves.**

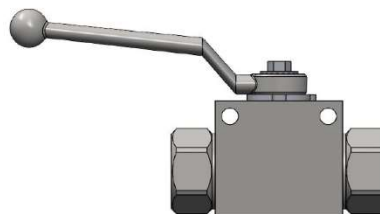
Lugar y fecha/Place and date:
Barcelona, 19 febrero 2019



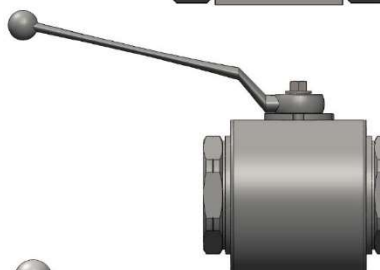
Oficina de emisión/
For the Certification Body
DNV GL – Business Assurance
Gran Vía de les Corts Catalanes, 130-
136, Pl. 9 08038 Barcelona, Spain


Ana del Rio Salgado
Representante de la dirección/
Management Representative

402 V2RH/V2MT Series



412 V2RD Series



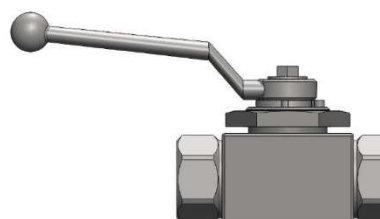
432 V3RH/V3MT Series



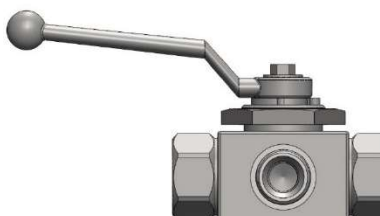
433 V3RH Series



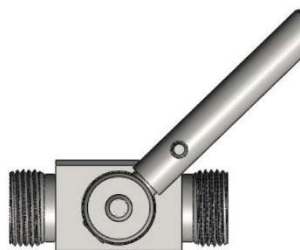
452 V2CR Series



453 V3CR Series



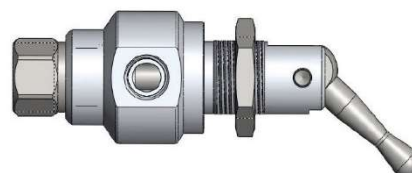
470 EK2 Series



471 EK3 Series



472 VPN Series



INDEX

BALL VALVES





DIRECTIONS FOR USE

Ball Valves



Before installation!!!

- ✓ Read carefully the assembly and safety instructions.
- ✓ Installation of the ball valves can be only done by well **qualified personnel**.
- ✓ Check whether the product meets the requirement and if it has been damaged during transport.
- ✓ Ensure that valve is suitable for installation, required pressure, connection, flow characteristic and is compatible with the medium used.
- ✓ Before installation clean up hose and pipes.
- ✓ Check that line temperature work within permitted limits.
- ✓ Verify that the application pressure is equal or less than the maximum working pressure of the valve.



Start-up!!

- ✓ Installation of ball valves can be only done if the circuit is depressurized. **1**
- ✓ Make sure the energy supply is disconnected.
- ✓ Always wear protective clothing.
- ✓ Remember to bleed and drain the pipe system before starting the installation. Air bubbles can cause explosions by pressurizing abruptly again.
- ✓ For connecting the valve during installation, always fix the thread adapter through a wrench. **4**
- ✓ Make sure to work always within permitted limits on pressure and temperature. **5**
- ✓ The valve is opened when the handle is in longitudinal position (parallel to the line). Valve is closed when the handle is in perpendicular position (right angle to the line). Switch the handle always 90° to reach the limit for opening or closing the flow.
- ✓ Ball valves can be installed in angle, vertical and horizontal position.
- ✓ Run always a test after installation.



Storage!!!

All our ball valves are brought through a surface treatment to improve its conservation. We recommend:

- Store in cool, dry, and high places above the ground.
- Keep away from heat sources or direct impact of the sunlight.
- Review periodically the valves whether these have signs of corrosion, cracks and/or visible damages.



Maintenance

- The ball valves should never be manipulated or unassembled. We warn to not use any kind of sealant.
- To avoid unexpected damages, **run regularly inspections**. If during inspection or first runs following conditions are detected, system should be turned off and the product replaced:
 - ✓ Malfunction
 - ✓ Presence of leakage
 - ✓ Visible damages, cracks and or corrosion
 - ✓ Difficulties by switching handle
 - ✓ System contamination
- The maintenance period should be defined by the end user depending on the type of application and operating conditions.
- After a long storing period or a long breakdown in operating position, the torque is higher than the force on impulse.



Warnings!!!



- ✗ The ball valves are not approved for controlling the flow constriction. Intermediate positions can cause damages on the ball seats. This leads to leakages. Flow constriction causes also an important increase of temperature. **2**
- ✗ Do never use inappropriate tool e.g. clamp tools, hammers, key tools. It can damage the stem and valve body. **3**
- ✗ Do never tight or loose the extremes of the ball valve, this leads to a torque increase and leakages.
- ✗ When installing the valve in a circuit, do always hold it from the end ports with a hexagonal key spanner. Holding the valve from the body or handle will loosen the torque, causing leakages.
- ✗ Avoid contaminating the hydraulic system. Contaminated mediums can damage internal sealing components.
- ✗ Operating over and under the permitted working pressure and temperature limits, leads to deterioration and leakages of the ball valve.
- ✗ In case of malfunction, ball valve must be replaced by qualified personnel. First depressurize and drain the system. If necessary, out of service.
- ✗ Repairs and reworks can be only done by the manufacturer or qualified and authorized personnel.
- ✗ If our ball valves are dismantled improperly without authorization, any warranty and damage claim against the manufacturer are null and void.
- ✗ Any changes on design or reworks on ball valve e.g. drilling fixing holes, welding plates are strictly prohibited without previous consultation with the manufacturer. **6**
- ✗ This manual is not intended to replace any national regulation on accident prevention and local safety regulations of the operating company, which on this should be considered a priority.

INTEVA and its distributors are not responsible for damages caused on people or machines for an improper use or incorrect maintenance of the products.

The product selection, installation, maintenance and use, is under end users responsibility.

The distributor must ensure that that all product requirements are met and must inform the end user about the product use and maintenance.



Elimination!!!

In compliance with the laws of each country on the disposal of industrial waste, the valves in disuse must be eliminated taking into account that all components can be recycled.

Consider that:

- Elimination and removal must be done by qualified personnel only.
- Before extraction, depressurize pipes and circuit. Ball valve must relieve pressure from its cavity as well.

V160421





402 SERIES

V2RH

BSP / NPTF
ORB/ SAE



Calibrated steel manufacturing.
Available with or without mounting holes.
Thread combination available upon request of minimum quantities.

• Materials

Carbon Steel *EN -10277-3*

Seals: **NBR, Viton or EPDM**

Seating Ball: *Poliamida 6*.

Handle: **ZAMAK-5**

• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C	+200°C	+150°C
	-30°C	-10°C	-40°C

• Sectors: Industrial, Agricultural.



• Equivalence

PISTER BKH

MHA BKH

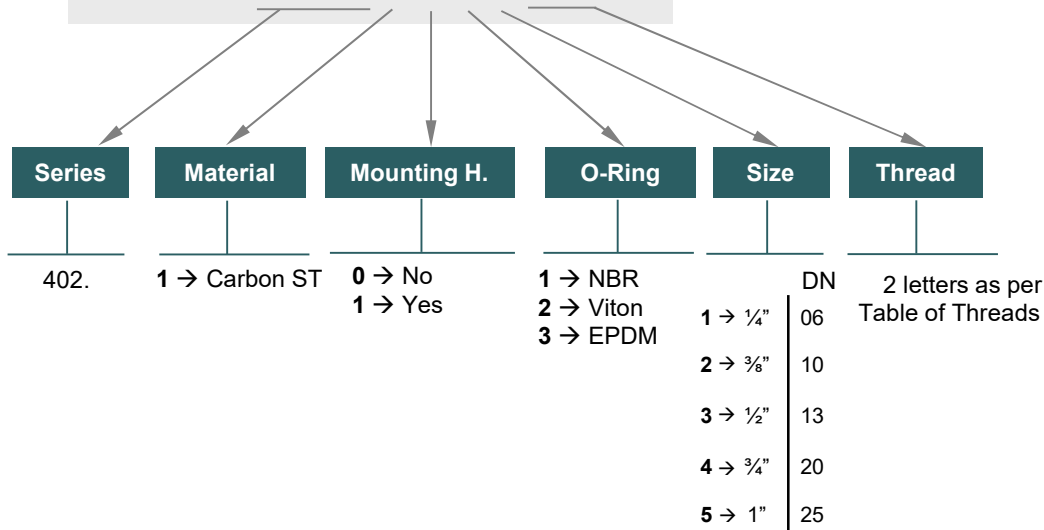
HYDAC KHB

DMIC DVH

MODEL STRUCTURE

Example:

402.1015 AF

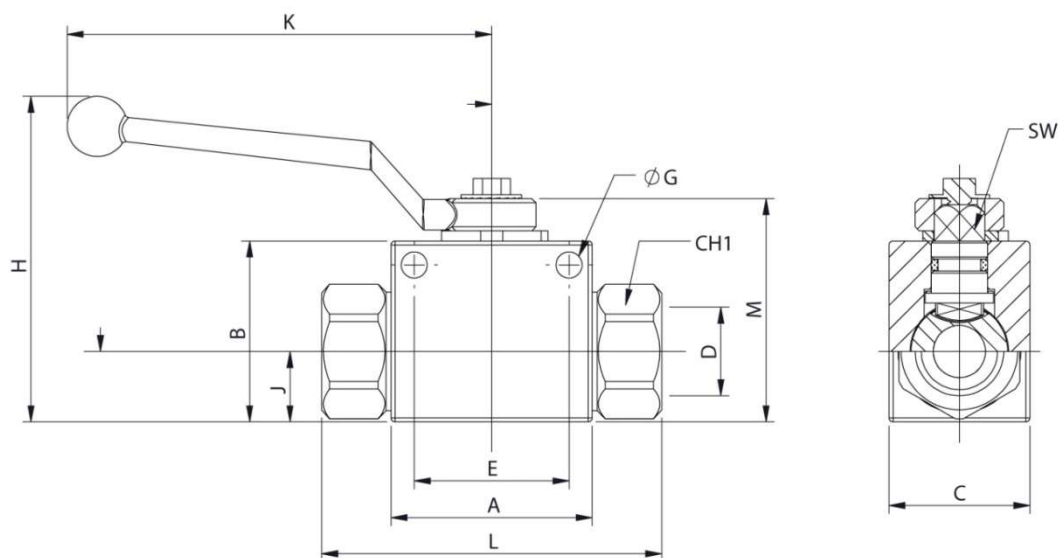


402-1



402 SERIES

V2RH BSP / NPTF
ORB/ SAE



STANDARD MODELS

DN	D	With M.H.	Without M.H.		CH1	L	A	B	M	K	H	J	C	SW	G	E
06	1/4" BSP	402.1111AB	402.1011AB		22	72,60	40	35	45,50	105,50	71	13	26	8,90	4,50	31,50
	1/4" NPTF	402.1111BB	402.1011BB													
	7/16"-20h UNF(ORB)	402.1111GA	402.1011GA													
10	3/8" BSP	402.1112AC	402.1012AC	500Bar	27	75,40	45	40	50,50	105,50	76	16	32	8,90	5,20	31,50
	3/8" NPTF	402.1112BC	402.1012BC													
	9/16"-18h UNF(ORB)	402.1112GC	402.1012GC													
13	1/2" BSP	402.1113AD	402.1013AD		30	84,50	50	45	55,50	105,50	81	17,50	35	8,90	6,50	38,50
	1/2" NPTF	402.1113BD	402.1013BD													
	3/4" - 16h UNF(ORB)	402.1113GF	402.1013GF													
20	3/4" BSP	402.1114AE	402.1014AE	400Bar	41	93,20	60	58	73	159,50	108	23	50	13,90	6,50	48,50
	3/4" NPTF	402.1114BE	402.1014BE													
	1 1/16"-12h UN(ORB)	402.1114GK	402.1014GK													
25	1" BSP	402.1115AF	402.1015AF	350Bar	46	114,50	65	65	80	159,50	115	27,50	57	13,90	8,50	50,50
	1" NPTF	402.1115BF	402.1015BF		46	114,50										
	1 1/4" BSP	402.1115AG	402.1015AG		50	136,50										
	1 1/4" NPTF	402.1115BG	402.1015BG		50	136,50										
	1 1/2" BSP	402.1115AH	402.1015AH		55	146,50										
	1 1/2" NPTF	402.1115BH	402.1015BH		55	146,50										
	1 5/16"-12ORB	402.1115GO	402.1015GO		46	114,50										

402-2



402 SERIES

V2MT DIN 2353



Calibrated steel manufacturing.
Available with or without mounting holes.
Thread combination available upon request of minimum quantities.

• Materials

Carbon Steel *EN -10277-3*

Seals: **NBR, Viton or EPDM**

Seating Ball: *Poliamida 6*.

Handle: **ZAMAK-5**

• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C	+200°C	+150°C
	-30°C	-10°C	-40°C

• Applications: Designed for Oil hydraulic Applications

• Equivalence

PISTER BKH

MHA BKH

HYDAC KHB

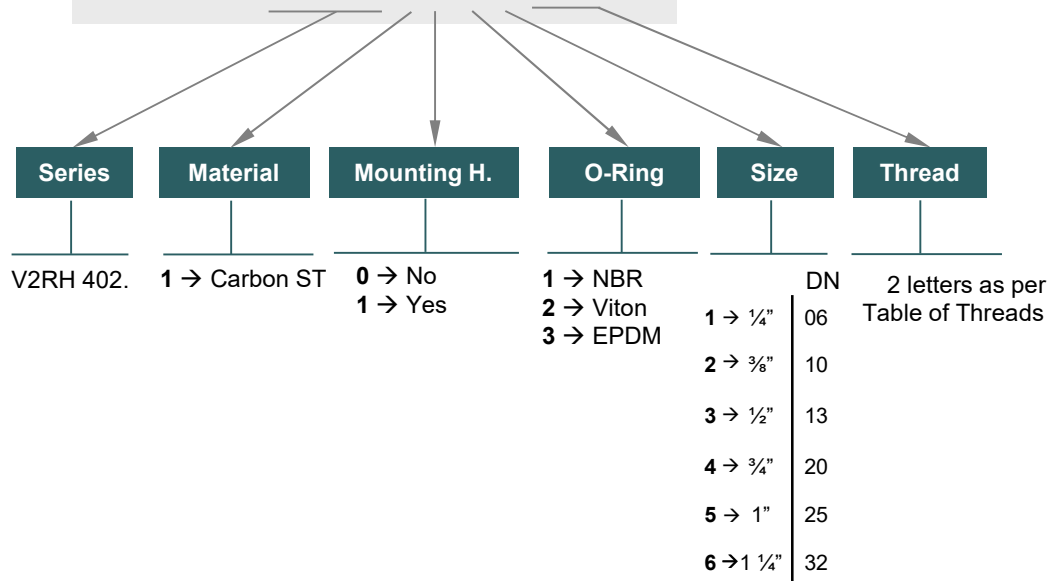
• Sectors: Industrial, Agricultural.



MODEL STRUCTURE

Example:

402.1113 JG

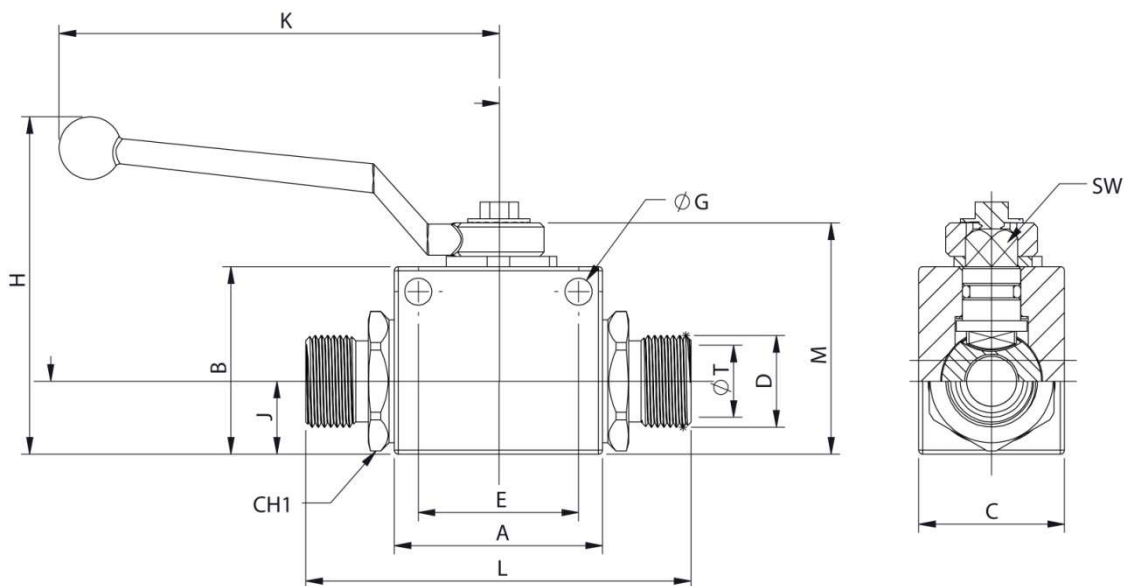


402-3



402 SERIES

V2MT DIN 2353



STANDARD MODELS

DN	D	ØT	With M.H.	Without M.H.		CH1	L	A	B	M	K	H	J	C	SW	ØG	E
06	M12x1,5	6L	402.1111JB	402.1011JB	500Bar	22	78,60										
	M14x1,5	8L	402.1111JC	402.1011JC			79,60	40	35	45,50	105,50	71	13	26	8,90	4,50	31,50
	M16x1,5	8S	402.1111KD	402.1011KD													
	M18x1,5	10S	402.1111KE	402.1011KE													
10	M16x1,5	10L	402.1112JD	402.1012JD	500Bar	27	77,40										
	M18x1,5	12L	402.1112JE	402.1012JE			79,40	45	35	50,50	105,50	76	16	32	8,90	5,20	31,50
	M22x1,5	15L	402.1112JG	402.1012JG													
	M20x1,5	12S	402.1112KF	402.1012KF													
13	M22x1,5	14S	402.1112KG	402.1012KG	500Bar	30											
	M22x1,5	15L	402.1113JG	402.1013JG			92,50	50	45	55,50	105,50	81	17,50	35	8,90	6,50	38,50
	M26x1,5	18L	402.1113JI	402.1013JI													
	M24x1,5	16S	402.1113KH	402.1013KH													
20	M30x2	20S	402.1113KJ	402.1013KJ	400Bar	41	108,40	60	58	73	159,50	108	23	50	13,90	6,50	48,50
	M30x2	22L	402.1114JJ	402.1014JJ			114,40										
	M36x2	25S	402.1114KK	402.1014KK													
	M36x2	28L	402.1115JK	402.1015JK			113,50	65	65	80	159,50	115	27,50	57	13,90	8,50	50,50
25	M42x2	30S	402.1115KL	402.1015KL	350Bar	46	128,50										



412 SERIES

V2RD

BSP / NPTF / SAE / ORB
CARBON STEEL

Calibrated steel manufacturing.
Thread combination available upon request of minimum quantities.

• Materials

Carbon Steel *EN -10277-3*

Seals: **NBR, Viton or EPDM**

Seating Ball: *Poliamida 6*.

Handle: **ZAMAK-5**

• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C	+200°C	+150°C
	-30°C	-10°C	-40°C

• Sectors: Industrial, Agricultural.



• Applications: Designed for Oil hydraulic Applications

• Equivalence

PISTER BKH

MHA BKH

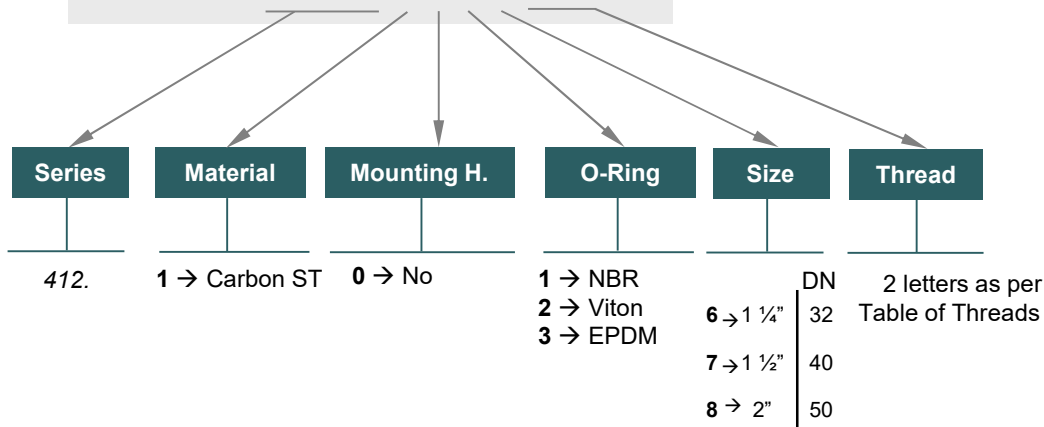
HYDAC BKH

DMIC BVH

MODEL STRUCTURE

Example:

412.1016 AG

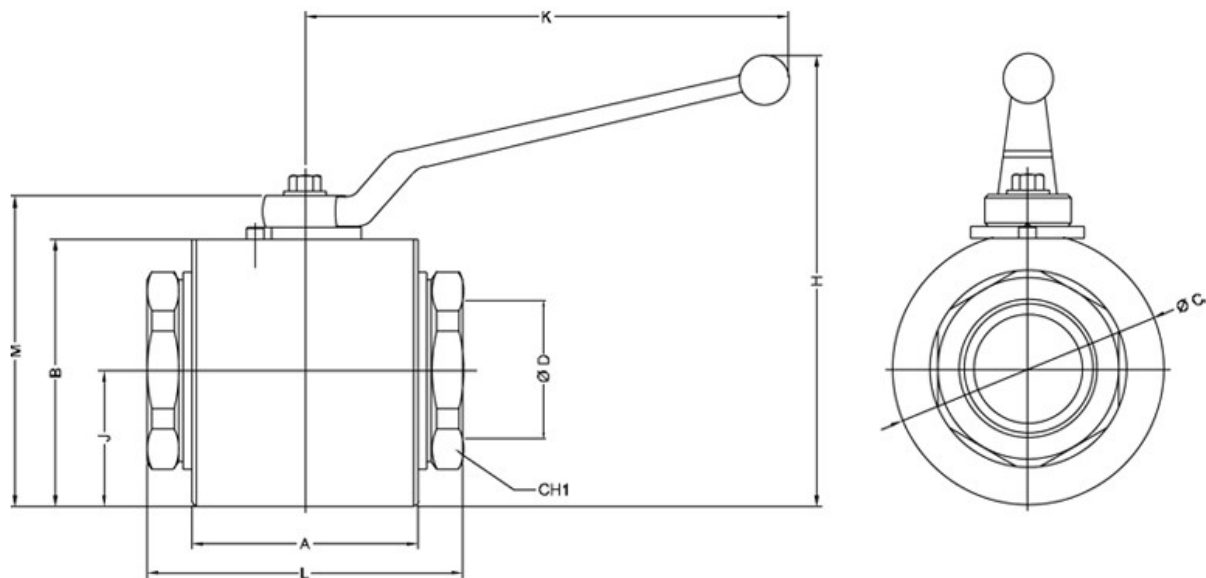


412-1



412 SERIES

V2RD BSP / NPTF / SAE / ORB
CARBON STEEL



DN	CH1	L	A	M	K	H	J	B	ØC
32	55	110	80	100	159,50	135	41	85,75	90
40	65	120	85	114	214	176	44,50	105	110
50	80	140	100	129		191	52	115	120

STANDARD MODELS (CARBON STEEL)

DN	D	ØT	REF.	
32	M45x2	35L	412.1016JM	320Bar
	M52x2	38S	412.1016KN	

STANDARD MODELS (CARBON STEEL)

DN	Ø D	REF.	
32	1 1/4" BSP	412.1016AG	320Bar
	1 1/4" NPTF	412.1016BG	
	1 5/8"-12ORB	412.1016GT	
40	1 1/2" BSP	412.1017AH	320Bar
	1 1/2" NPTF	412.1017BH	
50	2" BSP	412.1018AI	320Bar
	2" NPTF	412.1018BI	

412-2



412 SERIES

V2RD

BSP / NPTF / SAE / ORB
STAINLESS STEEL

Calibrated steel manufacturing.
Thread combination available upon request of minimum quantities.

• Materials

Stainless Steel *AISI 316L*,

Stainless Steel *AISI 303*

Seals: NBR, Viton or EPDM

Seating Ball: *Poliamida 6*.

Handle: ZAMAK-5

• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C -30°C	+200°C -10°C	+150°C -40°C

• Sectors: Industrial, Agricultural.



• Applications: Designed for Oil hydraulic Applications

• Equivalence

PISTER BKH

MHA BKH

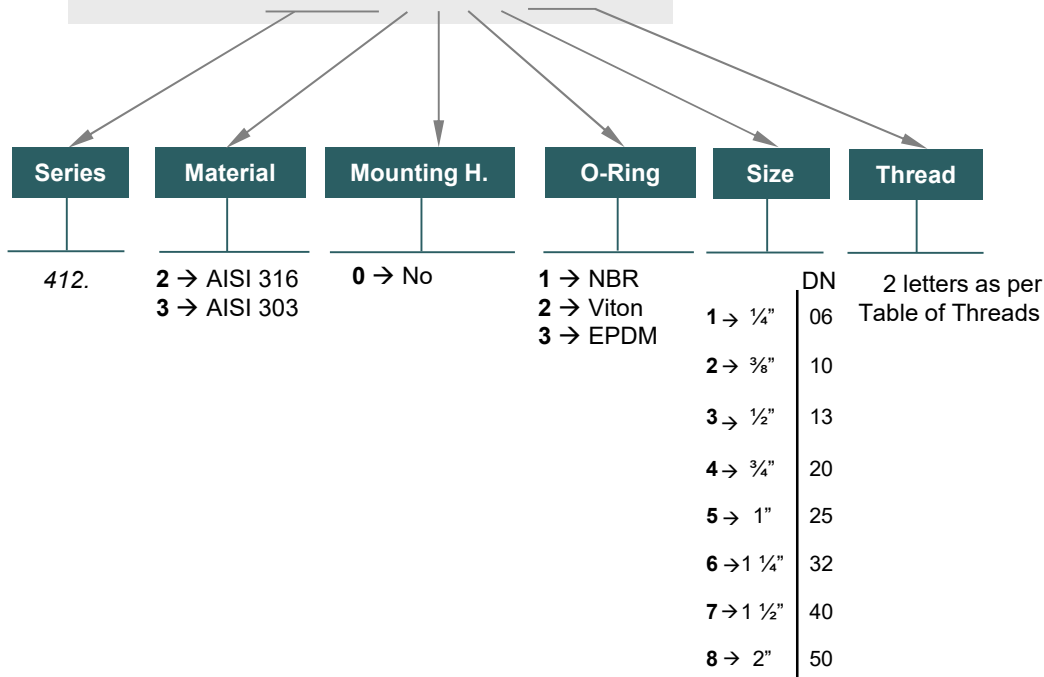
HYDAC BKH

DMIC BVH

MODEL STRUCTURE

Example:

412.2024 GK



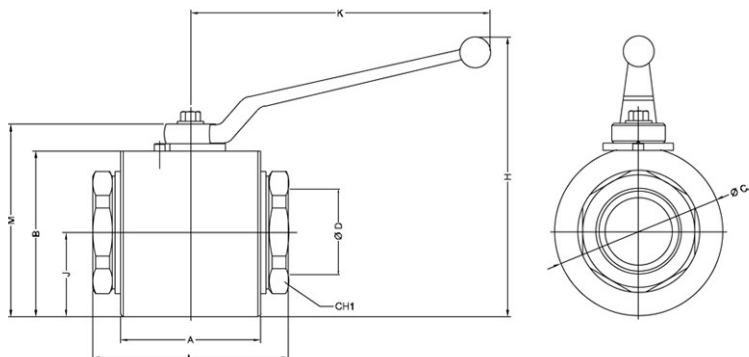
412-3



412 SERIES

V2RD

BSP / NPTF / SAE / ORB
STAINLESS STEEL



DN	CH1	L	A	M	K	H	J	B	ØC
06	22	74,50	40	45,50	105,50	71	13	35	38
10	27		45	50,50		76	16	40	45
13	30		84,50	50		55,50	81	17,50	45
20	41	93,40	60	74.5	159,50	109.5	24.5	59,5	65
25	46	114,50	65	80		115	27,50	65	70
	50	136,50							
	55	146,50							
32	55	110	80	100	214	135	41	85,75	90
40	65	120	85	114		176	44,50	105	110
50	80	140	100	129		191	52	115	120

STANDARD MODELS (AISI 316)

DN	Ø D	REF.	
06	1/4" BSP	412.2021AB	500Bar
	1/4" NPTF	412.2021BB	
	7/16"-20ORB	412.2021GA	
10	3/8" BSP	412.2022AC	500Bar
	3/8" NPTF	412.2022BC	
	9/16"-18ORB	412.2022GC	
13	1/2" BSP	412.2023AD	500Bar
	1/2" NPTF	412.2023BD	
	3/4" - 16ORB	412.2023GF	
20	3/4" BSP	412.2024AE	400Bar
	3/4" NPTF	412.2024BE	
	1 1/16"-12ORB	412.2024GK	
25	1" BSP	412.2025AF	350Bar
	1" NPTF	412.2025BF	
	1 1/4" BSP	412.2025AG	
	1 1/4" NPTF	412.2025BG	
	1 1/2" BSP	412.2025AH	
32	1 1/2" NPTF	412.2025BH	320Bar
	1 5/16"-12ORB	412.2025GO	
	1 1/4" BSP	412.2026AG	
40	1 1/4" NPTF	412.2026BG	320Bar
	1 5/8"-12ORB	412.2026GT	
50	1 1/2" BSP	412.2027AH	320Bar
	1 1/2" NPTF	412.2027BH	
50	2" BSP	412.2028AI	320Bar
	2" NPTF	412.2028BI	

Safety pressure factor 1:2

STANDARD MODELS (AISI 316)

DN	D	ØT	REF.	
06	M12x1,5	6L	412.2021JB	500Bar
	M14x1,5	8L	412.2021JC	
	M16x1,5	8S	412.2021KD	
	M18x1,5	10S	412.2021KE	
10	M16x1,5	10L	412.2022JD	500Bar
	M18x1,5	12L	412.2022JE	
	M22x1,5	15L	412.2022JG	
	M20x1,5	12S	412.2022KF	
13	M22x1,5	14S	412.2022KG	500Bar
	M22x1,5	15L	412.2023JG	
	M26x1,5	18L	412.2023JI	
	M24x1,5	16S	412.2023KH	
20	M30x2	20S	412.2023KJ	400Bar
	M30x2	22L	412.2024JJ	
	M30x2	20S	412.2024KJ	
	M36x2	25S	412.2024KK	
25	M36x2	28L	412.2025JK	350Bar
	M42x2	30S	412.2025KL	
32	M45x2	35L	412.2026JM	320Bar
	M52x2	38S	412.2026KN	

412-4



432 SERIES

V3RH

BSP / NPTF
ORB/ SAE



Calibrated steel manufacturing.
Available with or without mounting holes.
Thread combination available upon request of minimum quantities.

• Materials

Carbon Steel *EN -10277-3*

Seals: **NBR, Viton or EPDM**

Seating Ball: *Poliamida 6*.

Handle: **ZAMAK-5**

• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C -30°C	+200°C -10°C	+150°C -40°C

• Applications: Designed for Oil hydraulic Applications

• Equivalence

PISTER BK3

MHA BK3

HYDAC KHB3K

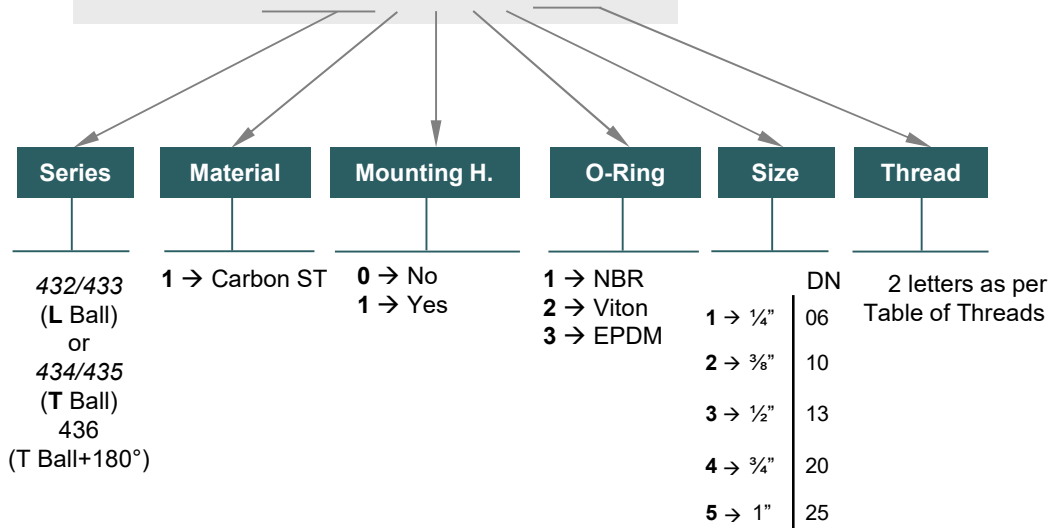
• Sectors: Industrial, Agricultural.



MODEL STRUCTURE

Example:

432.1113 AD



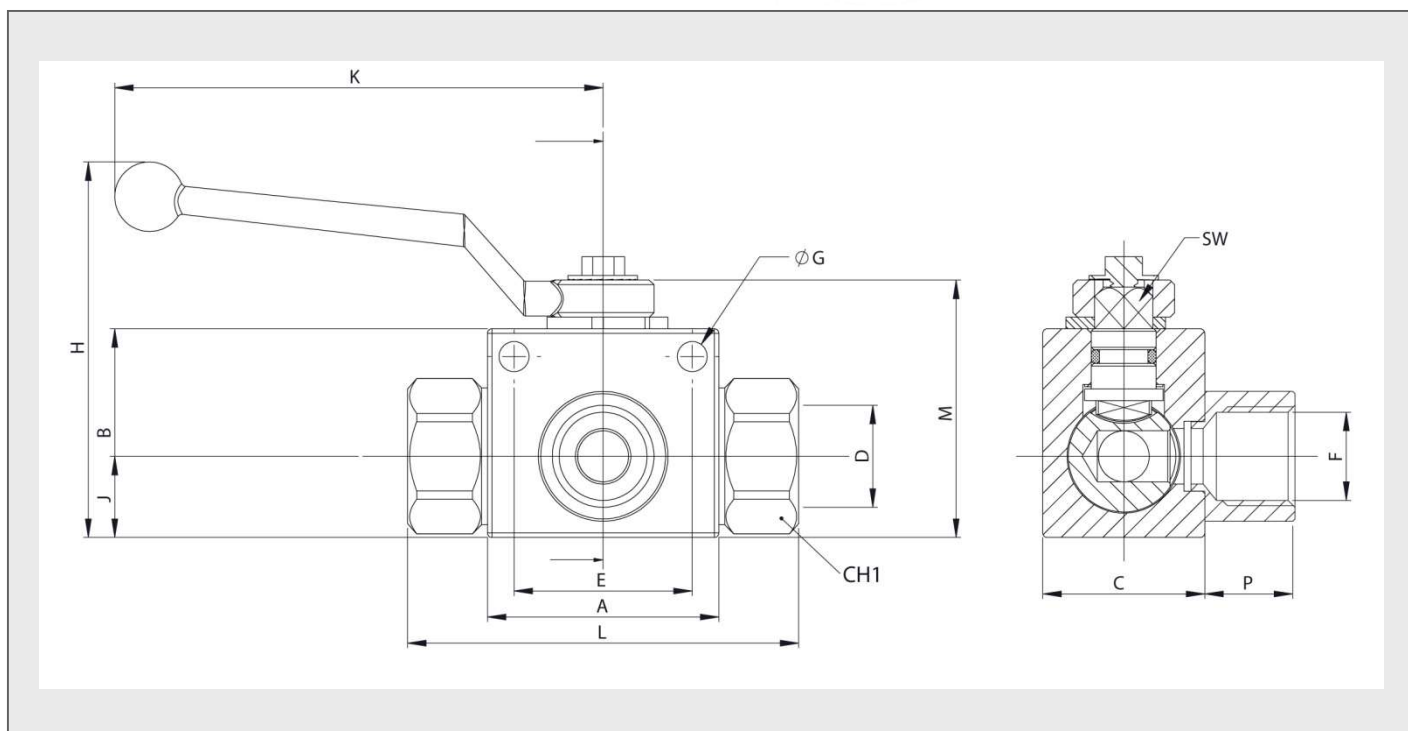
432-1



432 SERIES

V3RH BSP / NPTF
ORB/ SAE

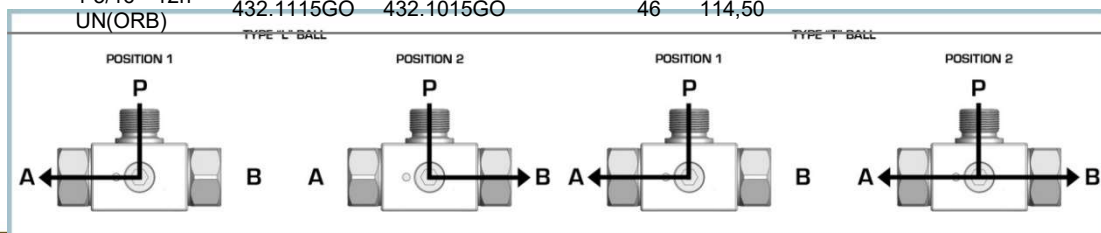
INTEVA



(A dimension)

STANDARD MODELS

DN	D / F	With M.H.	Without M.H.		CH1	L	A	B	M	K	H	J	C	SW	Ø G	E	P
06	1/4" BSP	432.1111AB	432.1011AB		22	72,60	40	35	45,50	105,50	71	13	26	8,90	4,50	31,50	16
	1/4" NPTF	432.1111BB	432.1011BB														13
	7/16"-20h UNF(ORB)	432.1111GA	432.1011GA														14
10	3/8" BSP	432.1112AC	432.1012AC	500Bar	27	75,40	45	40	50,50	105,50	76	16	32	8,90	5,20	31,50	15
	3/8" NPTF	432.1112BC	432.1012BC														16
	9/16" -18h UNF(ORB)	432.1112GC	432.1012GC														
13	1/2" BSP	432.1113AD	432.1013AD		30	84,50	50	45	55,50	105,50	81	17,50	35	8,90	6,50	38,50	19,50
	1/2" NPTF	432.1113BD	432.1013BD														
	3/4" - 16h UNF(ORB)	432.1113GF	432.1013GF														
20	3/4" BSP	432.1114AE	432.1014AE	400Bar	41	93,40	60	60	73	159,50	108	23	50	13,90	6,50	48,50	19
	3/4" NPTF	432.1114BE	432.1014BE														21
	1 1/16"-12h UN(ORB)	432.1114GK	432.1014GK														
25	1" BSP	432.1115AF	432.1015AF	350Bar	46	114,50	65	65	80	159,50	115	27,50	57	13,90	8,50	50,50	25
	1" NPTF	432.1115BF	432.1015BF		46	114,50											25
	1 1/4" BSP	432.1115AG	432.1015AG		50	136,50											31
	1 1/4" NPTF	432.1115BG	432.1015BG		50	136,50											25
	1 1/2" BSP	432.1115AH	432.1015AH		55	146,50											32
	1 1/2" NPTF	432.1115BH	432.1015BH		55	146,50											25
	1 5/16" -12h UN(ORB)	432.1115GO	432.1015GO		46	114,50											25



432-2



432 SERIES

V3MT DIN 2353



Calibrated steel manufacturing.
Available with or without mounting holes.
Thread combination available upon request of minimum quantities.

• Materials

Carbon Steel *EN -10277-3*

Seals: **NBR, Viton or EPDM**

Seating Ball: *Poliamida 6*.

Handle: **ZAMAK-5**

• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C	+200°C	+150°C
	-30°C	-10°C	-40°C

• Applications: Designed for Oil hydraulic Applications

• Equivalence

PISTER BK3

MHA BK3

HYDAC KHB3k

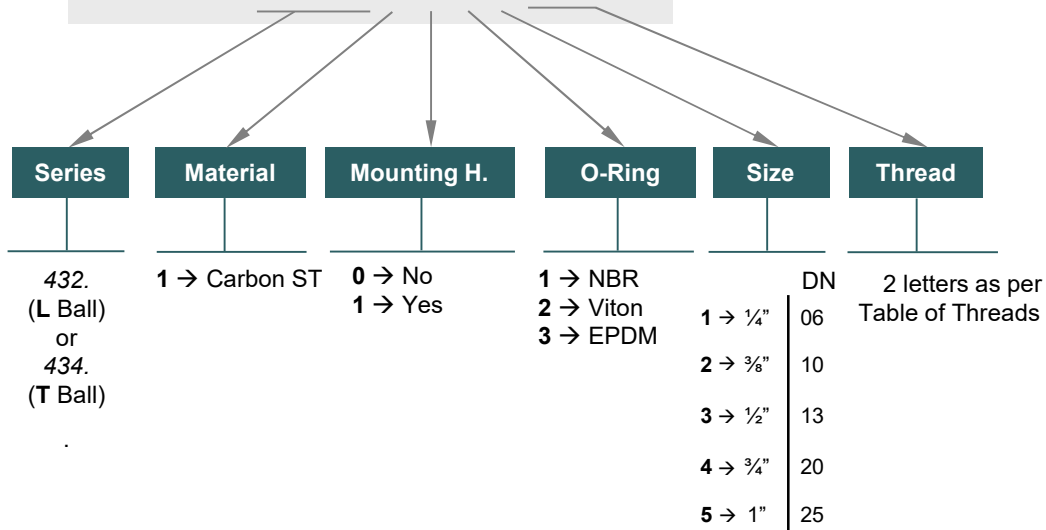
• Sectors: Industrial, Agricultural.



MODEL STRUCTURE

Example:

432.1013 KD

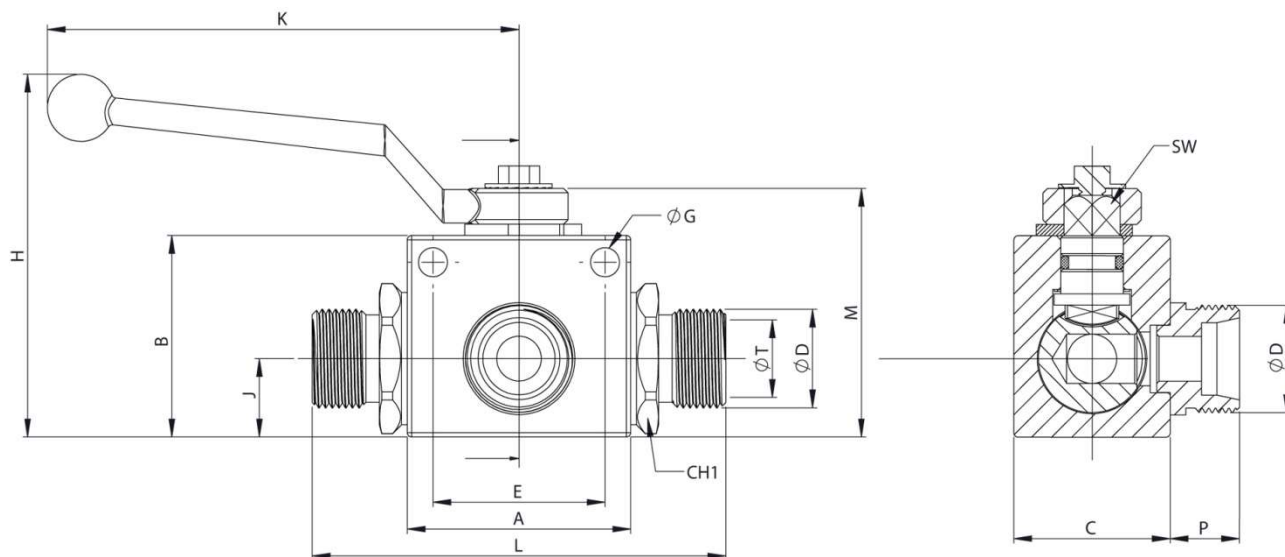


432-3



432 SERIES

V3MT DIN 2353



(A dimension)

STANDARD MODELS

DN	D	ØT	With M.H.	Without M.H.	CH1	L	A	B	M	K	H	J	C	SW	ØG	E	P
06	M12x1,5	6L	432.1111JB	432.1011JB	22	78,60	40	35	45,50	105,50	71	13	26	8,90	4,50	31,50	13
	M14x1,5	8L	432.1111JC	432.1011JC		79,60											
	M16x1,5	10L	432.1111JD	432.1011JD		78,60											
	M16x1,5	8S	432.1111KD	432.1011KD		79,60											14
	M18x1,5	10S	432.1111KE	432.1011KE		79,60											
	M16x1,5	10L	432.1112JD	432.1012JD		77,40											14
10	M18x1,5	12L	432.1112JE	432.1012JE	27	79,40	45	40	50,50	105,50	76	16	32	8,90	5,20	31,50	15
	M22x1,5	15L	432.1112JG	432.1012JG													
	M20x1,5	12S	432.1112KF	432.1012KF													
	M22x1,5	14S	432.1112KG	432.1012KG													24
	M22x1,5	15L	432.1113JG	432.1013JG													
	M26x1,5	18L	432.1113JI	432.1013JI													
13	M24x1,5	16S	432.1113KH	432.1013KH	30	92,50	50	45	55,50	105,50	81	17,50	35	8,90	6,50	38,50	15,50
	M30x2	20S	432.1113KJ	432.1013KJ		98,50											
	M30x2	22L	432.1114JJ	432.1014JJ		108,40											
20	M30x2	20S	432.1114KJ	432.1014KJ	41	114,40	60	58	73	159,50	108	23	50	13,90	6,50	48,50	17
	M36x2	25S	432.1114KK	432.1014KK		114,40											
	M36x2	28L	432.1115JK	432.1015JK		128,50											
25	M42x2	30S	432.1115KL	432.1015KL	46	128,50	65	65	80	159,50	115	27,50	57	13,90	8,50	50,50	25

TYPE "L" BALL

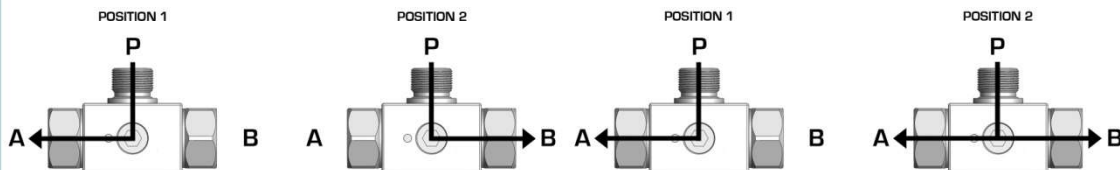
POSITION 1

POSITION 2

TYPE "T" BALL

POSITION 1

POSITION 2



432-4



433 SERIES

V3RH

BSP
F-M-F



Calibrated steel manufacturing.
Available with or without mounting holes.
Thread combination available upon request of minimum quantities.

• Materials

Carbon Steel *EN -10277-3*

Seals: **NBR, Viton or EPDM**

Seating Ball: *Poliamida 6*.

Handle: **ZAMAK-5**

• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C	+200°C	+150°C
	-30°C	-10°C	-40°C

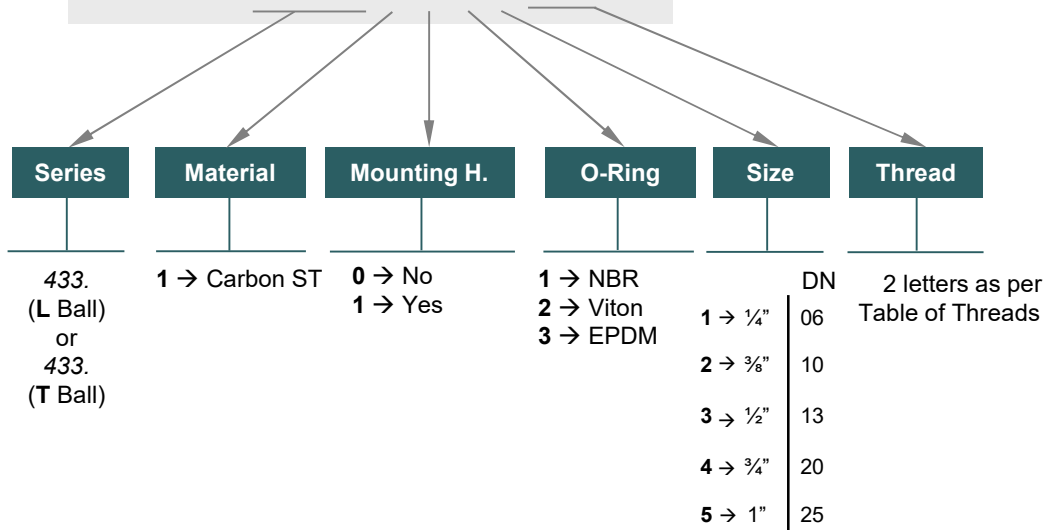
• Sectors: Industrial, Agricultural.



MODEL STRUCTURE

Example:

433.1115 AG



433-1

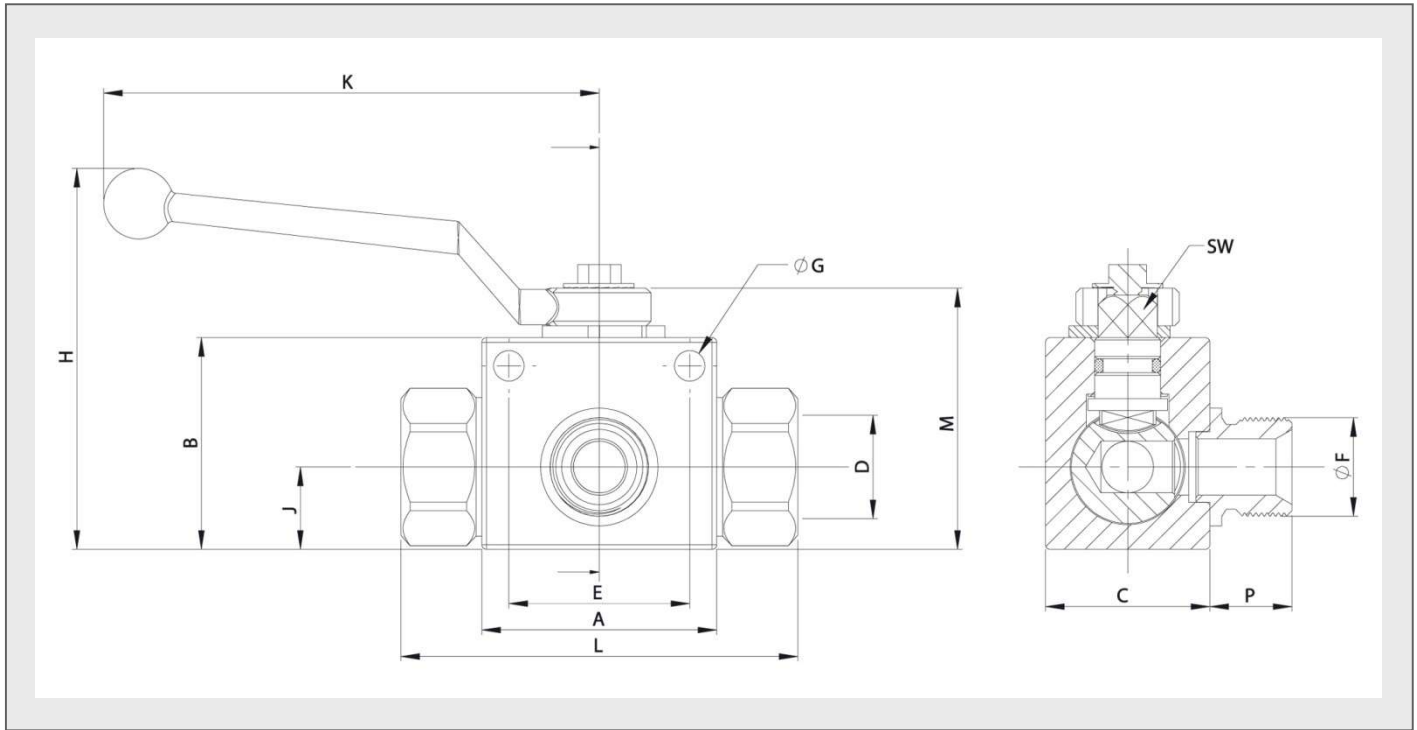


433 SERIES

V3RH

BSP
F-M-F

INTEVA



(A dimension)

STANDARD MODELS

DN	D / F	With M.H.	Without M.H.		CH1	L	A	B	M	K	H	J	C	SW	G	E	P
06	1/4" BSP	433.1111AB	433.1011AB	500Bar	22	72,60	40	35	45,50	105,50	71	13	26	8,90	4,50	31,50	13
10	3/8" BSP	433.1112AC	433.1012AC		27	75,40	45	40	50,50	105,50	76	16	32	8,90	5,20	31,50	15
13	1/2" BSP	433.1113AB	433.1013AB		30	84,50	50	45	55,50	105,50	81	17,50	35	8,90	6,50	38,50	17,50
20	3/4" BSP	433.1114AE	433.1014AE	400Bar	41	93,40	60	60	73	159,50	108	23	50	13,90	6,50	48,50	19
	1" BSP	433.1115AF	433.1015AF		46	114,50											25
25	1 1/4" BSP	433.1115AG	433.1015AG	350Bar	50	136,50	65	65	80	159,50	115	27,50	57	13,90	8,50	50,50	28
	1 1/2" BSP	433.1115AH	433.1015AH		55	146,50											

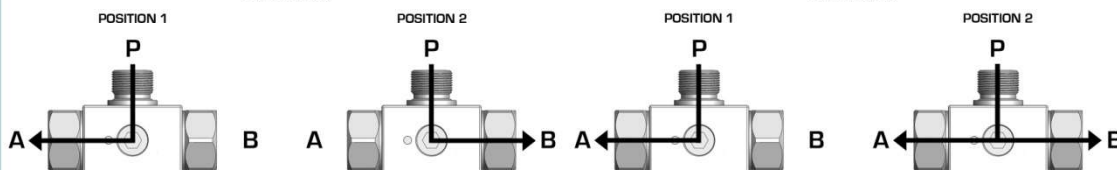
TYPE "L" BALL

POSITION 2

TYPE "T" BALL

POSITION 1

POSITION 2



433-2

INTEVA reserves the right to make modifications in its products without prior notice.
Any external or internal alteration in our products will automatically void the warranty.





452 SERIES

V2CR BSP / NPTF SAE /
ORB DIN2353



Calibrated steel manufacturing.
With bulkhead thread and nut to assembly in panels
Thread combination available upon request of minimum quantities.

• Materials

Carbon Steel *EN -10277-3*

Seals: **NBR, Viton or EPDM**

Seating Ball: *Poliamida 6.*

Handle: **ZAMAK-5**

• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C	+200°C	+150°C
	-30°C	-10°C	-40°C

• Sectors: Industrial, Agricultural.



• Applications: Designed for Oil hydraulic Applications.

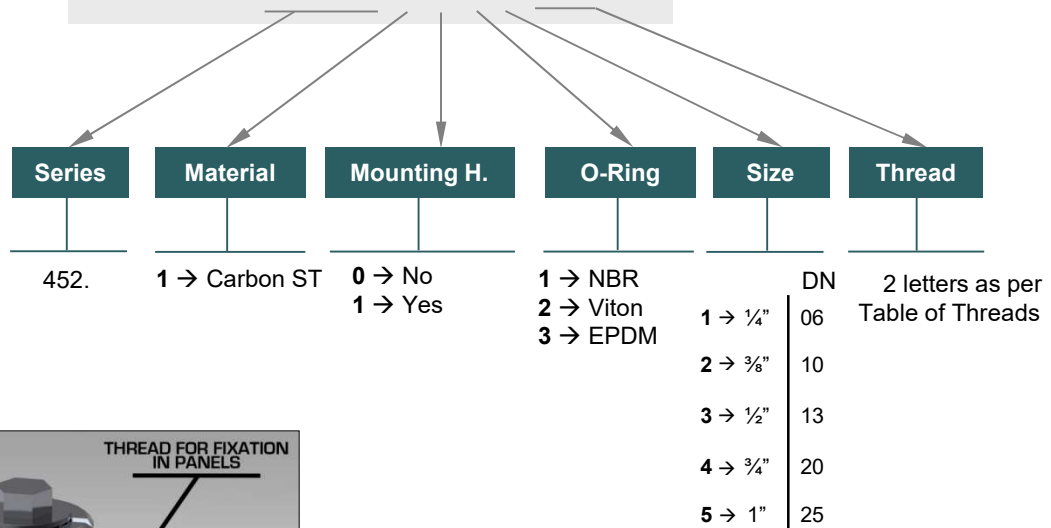
• Equivalence

INTEVA STANDARD

MODEL STRUCTURE

Example:

452.1112 AC



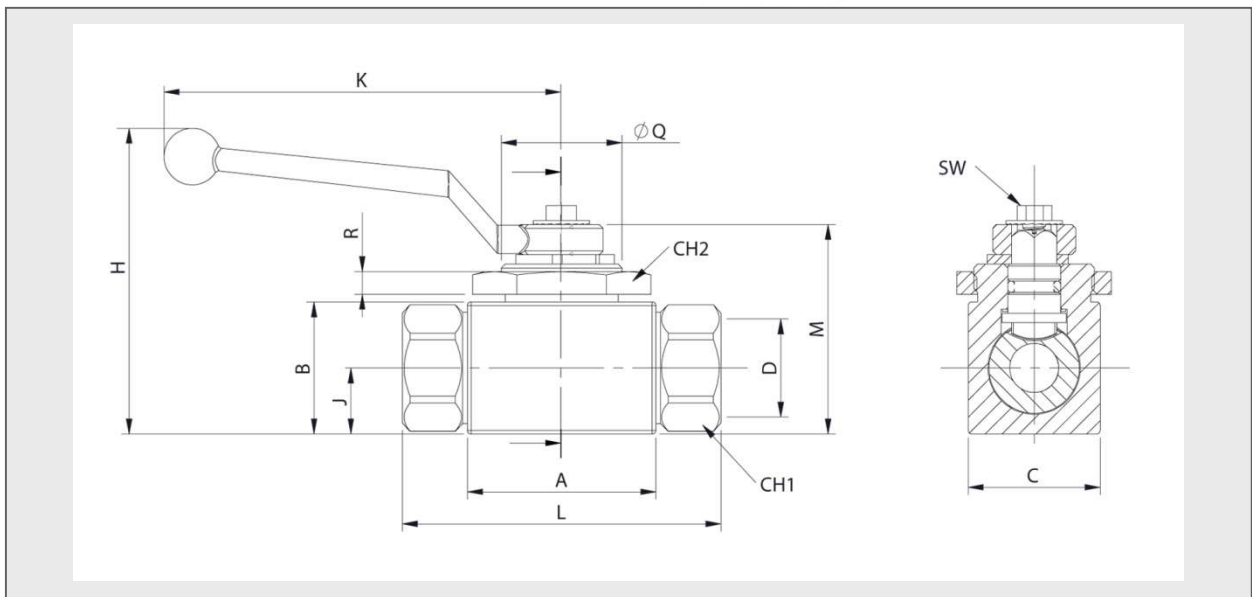
452-1



452 SERIES

V2CR BSP / NPTF SAE /
ORB DIN2353

INTEVA



STANDARD MODELS

DN	D	REF.		CH1	CH2	L	A	B	M	K	H	J	C	SW	R	ØQ
06	1/4" BSP	452.1011AB	500Bar	22	30											
	1/4" NPTF	452.1011BB				72,60										
	7/16" -12ORB	452.1011GA														
	M12x1,5 6L	452.1011JB				78,60	40	35	45,50	105,50	71	13	26	8,90	6	M32x1,5
	M14x1,5 8L	452.1011JC														
	M16x1,5 10L	452.1011JD				79,60										
10	M16x1,5 8S	452.1011KD														
	3/8" BSP	452.1012AC		27	41											
	3/8" NPTF	452.1012BC				75,40										
	9/16" -18ORB	452.1012GC														
	M16x1,5 10L	452.1012JD				77,40	45	40	50,50	105,50	76	16	32	8,90	6	M32x1,5
	M18x1,5 12L	452.1012JE														
13	M22x1,5 15L	452.1012JG				79,40										
	M20x1,5 12S	452.1012KF														
	M22x1,5 14S	452.1012KG														
	1/2" BSP	452.1013AD		30	41											
	1/2" NPTF	452.1013BD				84,50										
	3/4" -16ORB	452.1013GF														
20	M22x1,5 15L	452.1013JG					50	45	55,50	105,50	81	17,50	35	8,90	6	M32x1,5
	M26x1,5 18L	452.1013JI				92,50										
	M24x1,5 16S	452.1013KH														
	M30x2 20S	452.1013KJ														
	3/4" BSP	452.1014AE		41	50											
	3/4" NPTF	452.1014BE				93,40										
25	1 1/16"-12ORB	452.1014GK					60	58	73	159,50	108	23	50	13,90	6	M45x1,5
	M30x2 22L	452.1014JJ				108,40										
	M30x2 20S	452.1014KJ														
	M36x2 25S	452.1014KK				114,40										
	1" BSP	452.1015AF		46	50											
	1" NPTF	452.1015BF				114,50	65	65	80	159,50	115	27,50	57	13,90	6	M45x1,5
	1 2/16" -12ORB	452.1015GO														
	M36x2 28L	452.1015JK				113,50										

452-2



453 SERIES

V3CR BSP F-M-F



Calibrated steel manufacturing.
Available with and without mounting holes.
Thread combination available upon request of minimum quantities.

• Materials

Carbon Steel *EN -10277-3*

Seals: **NBR, Viton or EPDM**

Seating Ball: *Poliamida 6*.

Handle: **ZAMAK-5**

• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C -30°C	+200°C -10°C	+150°C -40°C

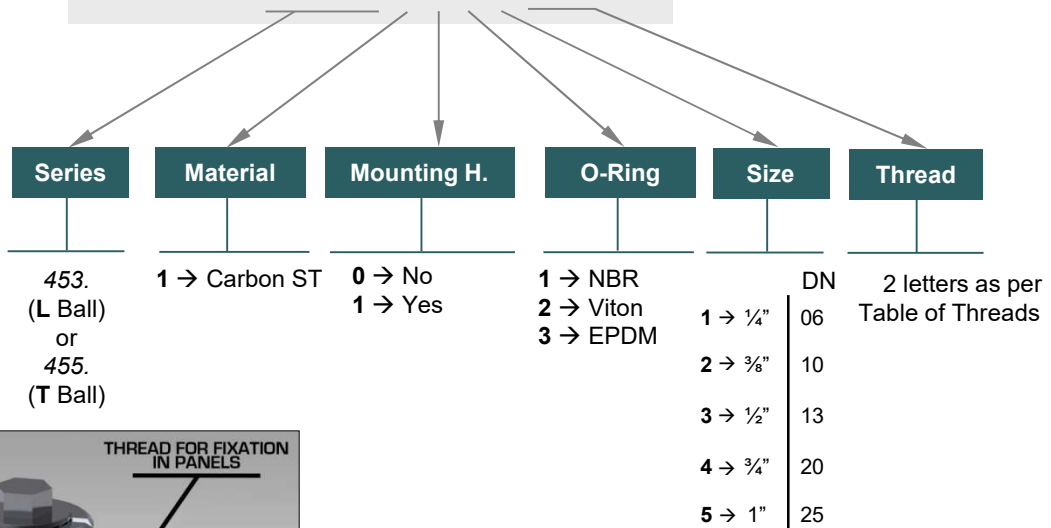
• Sectors: Industrial, Agricultural.



MODEL STRUCTURE

Example:

453.1014 AE



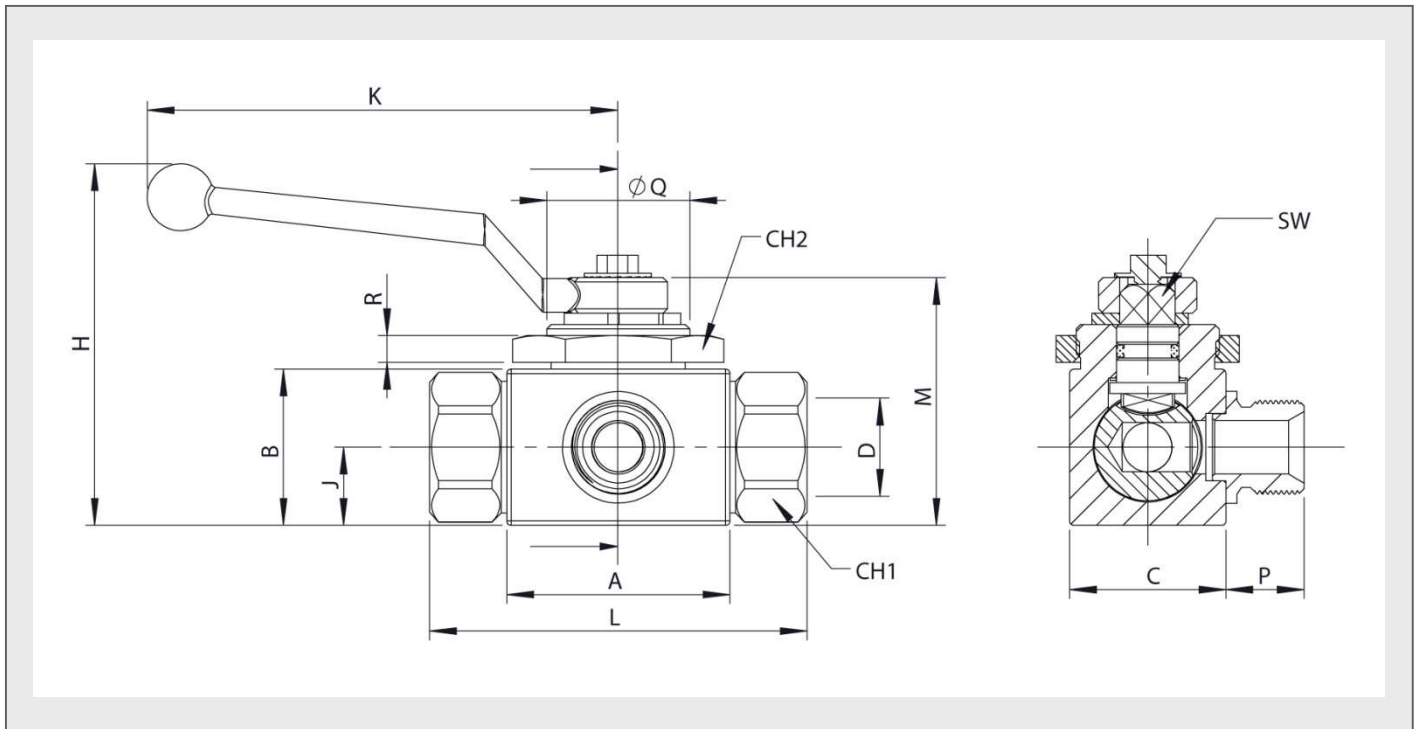
453-1



453 SERIES

V3CR

BSP
F-M-F

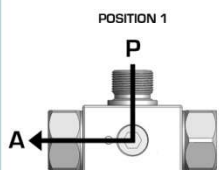


STANDARD MODELS

DN	D	REF.		CH1	CH2	L	A	B	M	K	H	J	C	SW	R	Q	P
06	1/4" BSP	453.1011AB	500Bar	22	30	72,60	40	35	45,50	105,50	71	13	26	8,90	6	M32x1,5	13
10	3/8" BSP	453.1012AC		27	41	75,40	45	40	50,50		76	16	32			M32x1,5	15
13	1/2" BSP	453.1013AD		30		84,50	50	45	55,50		81	17,50	35			M32x1,5	17,5
20	3/4" BSP	453.1014AE	400Bar	41	50	93,40	60	58	73	159,50	108	23	50	13,90		M45x1,5	19
25	1" BSP	453.1015AF	350Bar	46	50	114,50	65	65	80		115	27,50	57				25

TYPE "L" BALL

POSITION 2



B



A

POSITION 1



A

TYPE "T" BALL

POSITION 2



A

453-2



470 SERIES EK2

BSP
DIN2353

Steel manufacturing.
Designed exclusively as flow diverters.

• Materials

Carbon Steel EN -10277-3

Seals: NBR, Viton or EPDM

Handle: ZAMAK-5

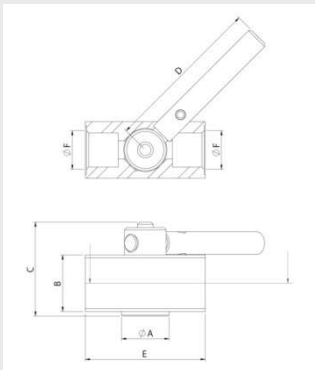
• Working temperature (O-ring)

	NBR	Viton	EPDM
	+100°C	+200°C	+150°C
	-30°C	-10°C	-40°C

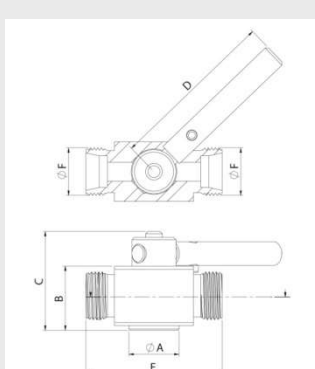
• Applications: Designed for Oil hydraulic Applications.

• Sectors: Industrial, Agricultural.





STANDARD MODEL								
DN	Ø F	REF.		Ø A	B	C	D	E
10	3/8" BSP	470.1012AC	250Bar	36	56	26,85	112	53



STANDARD MODEL								
DN	Ø F	REF.		Ø A	B	C	D	E
10	M20x1,5	470.1012KFA	250Bar	36	56	26,85	112	53

Metal closure system without O-ring. (Not 100% sealant).

470-1

INTEVA reserves the right to make modifications in its products without prior notice.
Any external or internal alteration in our products will automatically void the warranty.





471 SERIES EK3

BSP



Steel manufacturing.
Designed exclusively as flow diverters.

- **Materials**

Carbon Steel *EN -10277-3*

Seals: NBR, Viton or EPDM

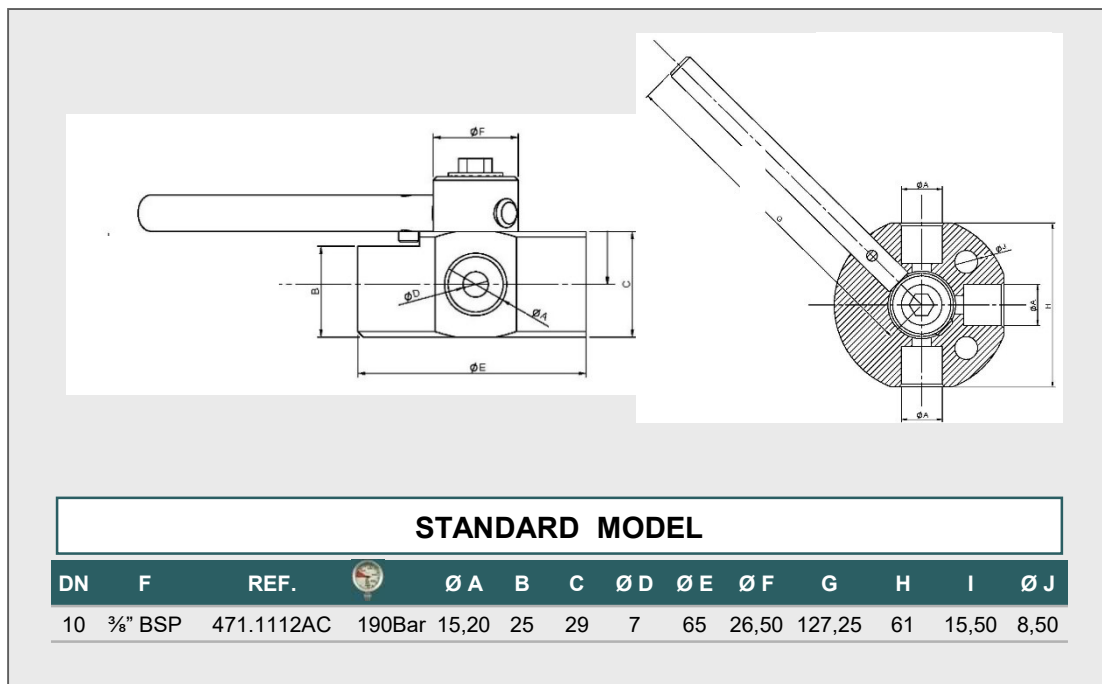
Handle: ZAMAK-5

- **Working temperature (O-ring)**

	NBR	Viton	EPDM
	+100°C -30°C	+200°C -10°C	+150°C -40°C

- **Applications:** Designed for Oil hydraulic Applications.

- **Sectors:** Industrial, Agricultural.



 Metal closure system without O-ring. (Not 100% sealant).

471-1

INTEVA reserves the right to make modifications in its products without prior notice.
Any external or internal alteration in our products will automatically void the warranty.





472 SERIES VPN BSP

BSP



Aluminium manufacturing.
Designed for pneumatic systems in trucks.
BSP Threads, others upon request.

• Materials

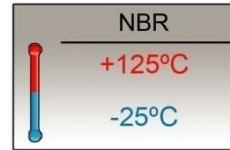
Body: *Aluminium*

Inner parts: *Carbon Steel EN 10277-3*

Seals: **NBR**

Handle: *Carbon Steel EN 10277-3*

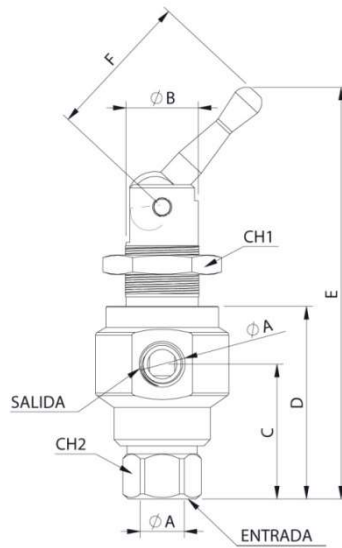
• Working temperature (O-ring)



• Sectors: Trucks



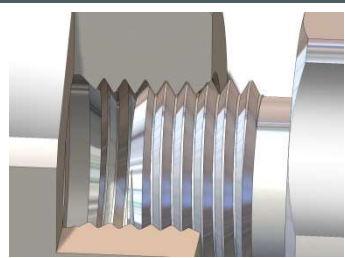
• Applications: Designed for Pneumatic Systems. Applications.



STANDARD MODEL

DN	Ø A	REF.		Ø B	C	D	E	F	CH2	CH1
06	1/4" BSP	472.611AB	15Bar	25	43	60,50	125	46	22	32

472-1



SERIE 999 THREADS



METRIC THREADS ISO 261

FINAL CONECTION

DIN 3852-1 B / ISO 9974-3

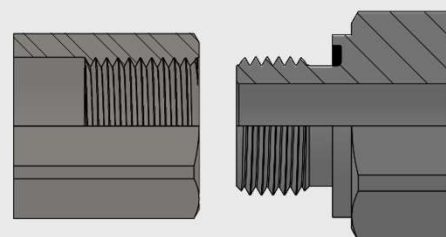
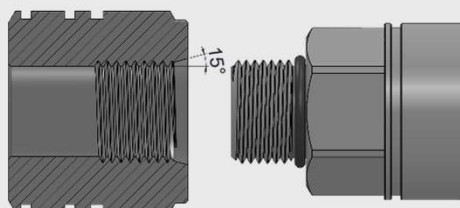
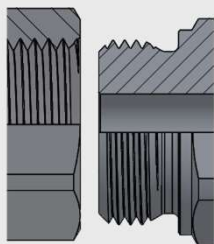
THREAD	FEMALE	MALE
M8x1	NA	PA
M10x1	NB	PB
M12x1,5	NC	PC
M14x1,5	ND	PD
M16x1,5	NE	PE
M18x1,5	NF	PF
M20x1,5	NG	PG
M22x1,5	NH	PH
M24x1,5	NI	PI
M26x1,5	NO	PO
M27x2	-	-
M30x2	NJ	PJ
M33x2	NK	PK
M42x2	NL	PL
M48x2	NM	PM

ISO 6149-2 (ORB)

THREAD	FEMALE	MALE
M8x1	EA	OA
M10x1	EC	OC
M12x1,5	EE	OE
M14x1,5	EF	OF
M16x1,5	EG	OG
M18x1,5	EH	OH
M20x1,5	EK	OK
M22x1,5	EM	OM
M27x2	-	-
M30x2	EJ	OJ
M33x2	EQ	OQ
M42x2	ET	OT
M48x2	EU	OU
M60x2	EV	OV

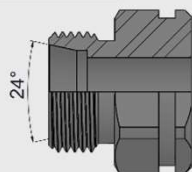
ISO 9974-2 (E) / DIN3852-11

THREAD	FEMALE	MALE
M8x1	NA	QA
M10x1	NB	QB
M12x1,5	NC	QC
M14x1,5	ND	QD
M16x1,5	NE	QE
M18x1,5	NF	QF
M20x1,5	NG	QG
M22x1,5	NH	QH
M26x1,5	NO	QO
M27x2	-	-
M30x2	NJ	QJ
M33x2	NK	QK
M42x2	NL	QL
M48x2	NM	QM



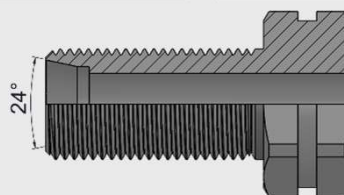
ISO 8434-1 / DIN3861

THREAD	L	THREAD	S
M12x1,5 6L	JB	M16x1,5 8S	KD
M14x1,5 8L	JC	M18x1,5 10S	KE
M16x1,5 10L	JD	M20x1,5 12S	KF
M18x1,5 12L	JE	M22x1,5 14S	KG
M22x1,5 15L	JG	M24x1,5 16S	KH
M26x1,5 18L	JI	M30x2 20S	KJ
M30x2 22L	JJ	M36x2 25S	KK
M36x2 28L	JK	M42x2 30S	KL
M45x2 35L	JM	M52x2 38S	KN
M52x2 42L	JN		

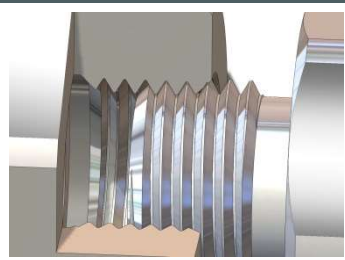


ISO 8434-1 Bulkhead / DIN3861

THREAD	L	THREAD	S
M12x1,5 6L	LB	M16x1,5 8S	MD
M14x1,5 8L	LC	M18x1,5 10S	ME
M16x1,5 10L	LD	M20x1,5 12S	MF
M18x1,5 12L	LE	M22x1,5 14S	MG
M22x1,5 15L	LG	M24x1,5 16S	MH
M26x1,5 18L	LI	M30x2 20S	MJ
M30x2 22L	LJ	M36x2 25S	MK
M36x2 28L	LK	M42x2 30S	ML
M45x2 35L	LM	M52x2 38S	MN



999-1



SERIE 999 THREADS

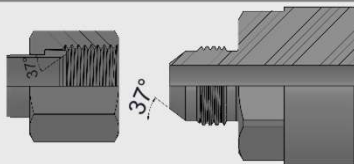


UNIFIED STEP THREADS ASME B1.1

FINAL CONECTION

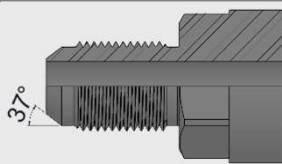
SAE 37° (JIC) / J514 ISO 8434-2

THREAD	FEMALE	MALE
3/8" -24UNF	UA	YA
7/16"-20UNF	UB	YB
1/2" - 20UNF	UC	YC
9/16"-18UNF	UD	YD
11/16"-16UN	UE	YE
3/4"-16UNF	UF	YF
13/16"-16UN	UG	YG
7/8"-14UNF	UH	YH
1 1/16"-12UN	UK	YK
1 3/16"-12UN	UM	YM
1 5/16"-12UN	UO	YO
1 7/16"-12UN	UQ	YQ
1 5/8"-12UN	UT	YT
1 11/16"-12UN	UU	YU
1 7/8"-12UN	UV	YV



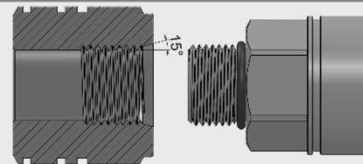
SAE 37° (JIC) / J514 ISO 8434-2(Bulkhead)

THREAD	FEMALE	MALE
3/8" -24UNF	-	YAP
7/16"-20UNF	-	YBP
1/2" - 20UNF	-	YCP
9/16"-18UNF	-	YDP
11/16"-16UN	-	YEP
3/4"-16UNF	-	YFP
13/16"-16UN	-	YGP
7/8"-14UNF	-	YHP
1 1/16"-12UN	-	YKP
1 3/16"-12UN	-	YMP
1 5/16"-12UN	-	YOP
1 7/16"-12UN	-	YQP
1 5/8"-12UN	-	YTP
1 11/16"-12UN	-	YUP
1 7/8"-12UN	-	YVP



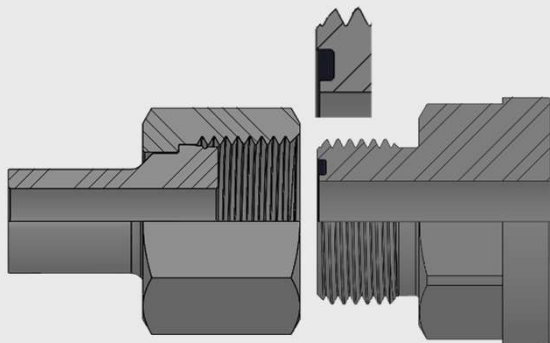
SAE J1926 / ISO 11926 (ORB)

THREAD	FEMALE SAE J1926-1	MALE SAE J1926-2
3/8" 24UNF	GA	HA
7/16"-20UNF	GB	HB
1/2" - 20UNF	GC	HC
9/16"-18UNF	GD	HD
11/16"-16UN	GE	HE
3/4"-16UNF	GF	HF
13/16"-16UN	GG	HG
7/8"-14UNF	GH	HH
1 1/16"-12UN	GK	HK
1 3/16"-12UN	GM	HM
1 5/16"-12UN	GO	HO
1 7/16"-12UN	GQ	HQ
1 5/8"-12UN	GT	HT
1 11/16"-12UN	GU	HU
1 7/8"-12UN	GV	HV



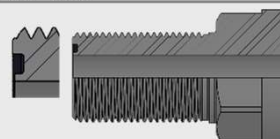
SAEJ1453 / ISO 8434-3 (ORFS)

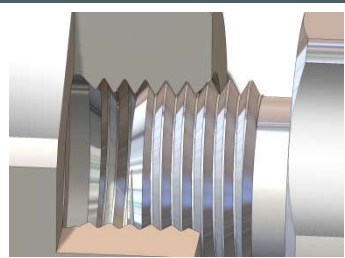
THREAD	FEMALE	MALE
9/16"-18UNF	VD	ZD
11/16"-16UN	VE	ZE
13/16"-16UN	VG	ZG
1"-14UNS	VI	ZI
1 3/16"-12UN	VM	ZM
1 5/16"-12UN	VO	ZO
1 7/16"-12UN	VQ	ZQ
1 11/16"-12UN	VU	ZU



SAEJ1453 / ISO 8434-3 (ORFS Bulkhead)

THREAD	FEMALE	MALE
3/8" -24UNF	-	ZAP
7/16"-20UNF	-	ZBP
1/2" - 20UNF	-	ZCP
9/16"-18UNF	-	ZDP
11/16"-16UN	-	ZEP
3/4"-16UNF	-	ZFP
13/16"-16UN	-	ZGP
7/8"-14UNF	-	ZHP
1" - 16UNS	-	ZIP
1 1/16"-12UN	-	ZKP
1 3/16"-12UN	-	ZMP
1 5/16"-12UN	-	ZOP
1 7/16"-12UN	-	ZQP
1 5/8"-12UN	-	ZTP
1 11/16"-12UN	-	ZUP
1 7/8"-12UN	-	ZVP



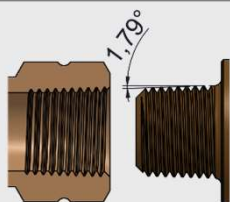


SERIE 999 THREADS

CONICAL THREADS

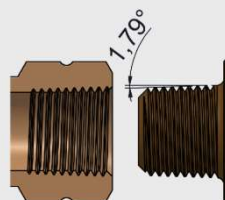
NPTF ASME B1.20.3

THREAD	FEMALE	MALE
1/8"	BA	BL
1/4"	BB	BM
3/8"	BC	BN
1/2"	BD	BO
3/4"	BE	BP
1"	BF	BQ
1 1/4"	BG	BR
1 1/2"	BH	BS
2"	BI	BT
2 1/2"	BJ	BU
3"	BK	BV



BSPT: ISO 7/1 / DIN 3852-2, TIPO C

THREAD	FEMALE	MALE
1/8"	DA	DL
1/4"	DB	DM
3/8"	DC	DN
1/2"	DD	DO
3/4"	DE	DP
1"	DF	DQ
1 1/4"	DG	DR
1 1/2"	DH	DS
2"	DI	DT

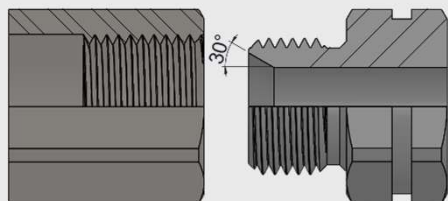


THREAD BSP ISO 228/1

FINAL CONECTION

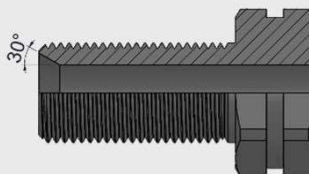
BSPP / BS5200

THREAD	FEMALE	MALE
1/8"	AA	AL
1/4"	AB	AM
3/8"	AC	AN
1/2"	AD	AO
3/4"	AE	AP
1"	AF	AQ
1 1/4"	AG	AR
1 1/2"	AH	AS
2"	AI	AT
2 1/2"	AJ	AU
3"	AK	AV



BSPP Bulkhead

THREAD	MALE
1/8"	CL
1/4"	CM
3/8"	CN
1/2"	CO
3/4"	CP
1"	CQ
1 1/4"	CR
1 1/2"	CS
2"	CT



SPECIALS

THREAD	
KFA	M20x1,5 Ø13,5
KFB	M20x1,5 Cone 60°
HFA	3/4"-16M. Without 37°
JDA	M16x1,5 Bulkhead M20x1,5
GFA	3/4"-16UNF cylinder
JGA	M22x1,5 Prolonged
JGB	M22x1,5 15L Long. Hex 35mm
LGA	M22 Bulkhead Prolonged

THREAD	FEMALE	MALE
3/8" -24UNF	VA	ZA
7/16" -20UNF	VB	ZB
1/2" - 20UNF	VC	ZC
3/4" -16UNF	VF	ZF
7/8" -14UNF	VH	ZH
1" - 16UNS	VI	ZI
1 1/16" -12UN	VK	ZK
1 5/8" -12UN	VT	ZT
1 7/8" -12UN	VV	ZV



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