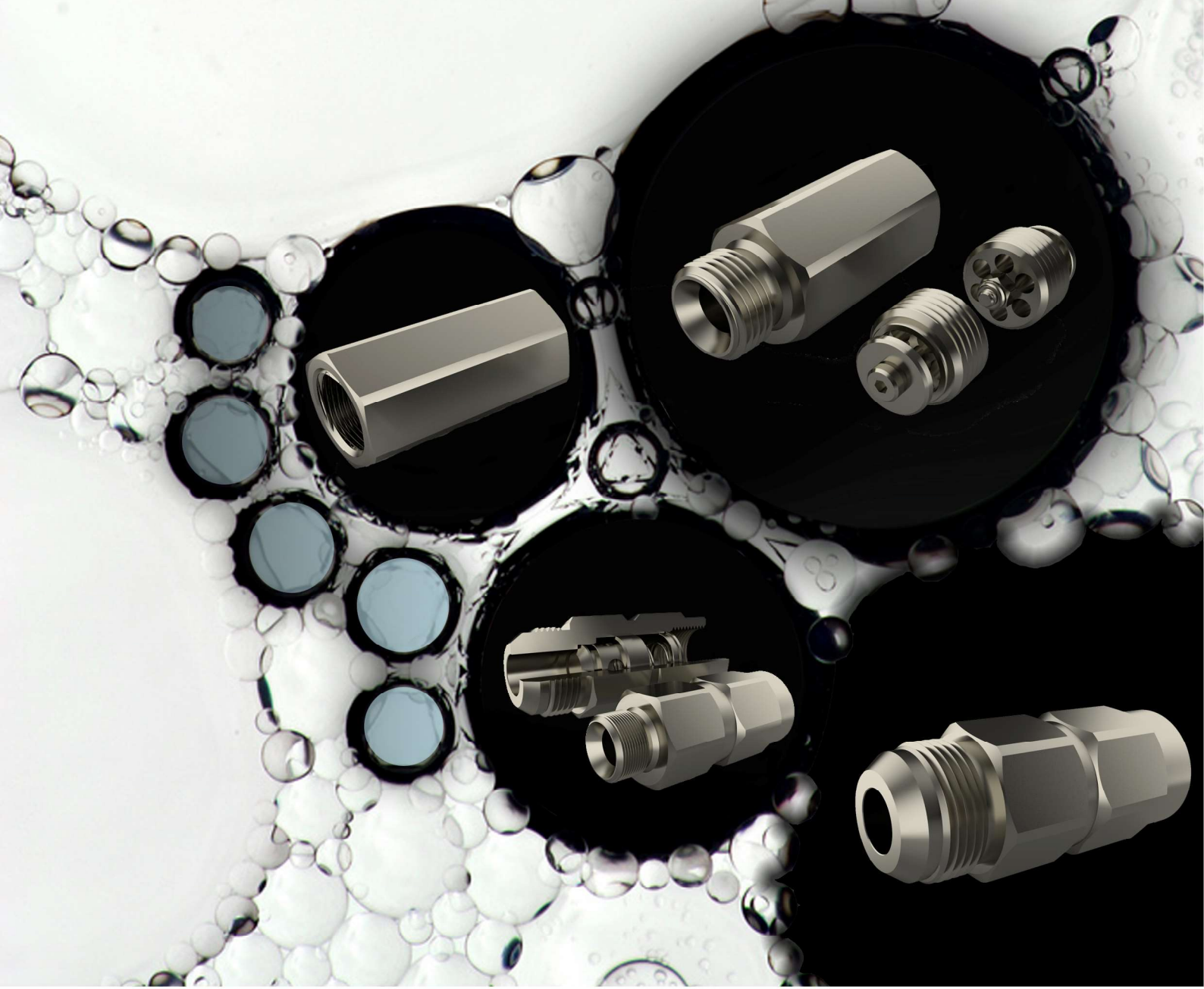




[www.inteva.es](http://www.inteva.es)

*CHECK 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**

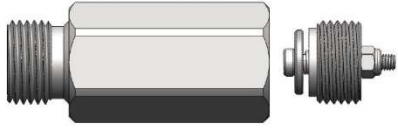
  
**Ana del Rio Salgado**  
Representante de la dirección/  
Management Representative

# INDEX

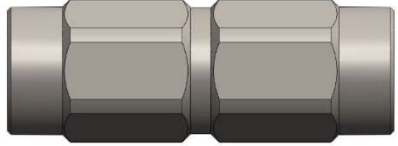
## CHECK VALVES



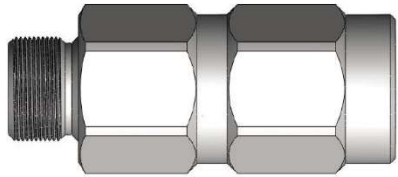
502 ..... VPC Series



504 ..... ATR Series



505 ..... ATR Series







# 502 SERIES VPC BSP



Designed to act in case of hose breakage.  
Block/Control charge's descent avoiding a sharp-fall pressure on the circuit.  
BSP Threads, others available upon request.

• **Materials**

Carbon Steel EN -10277-3 / AISI 316L  
Springs: Carbon Steel DIN 17233/84(B)

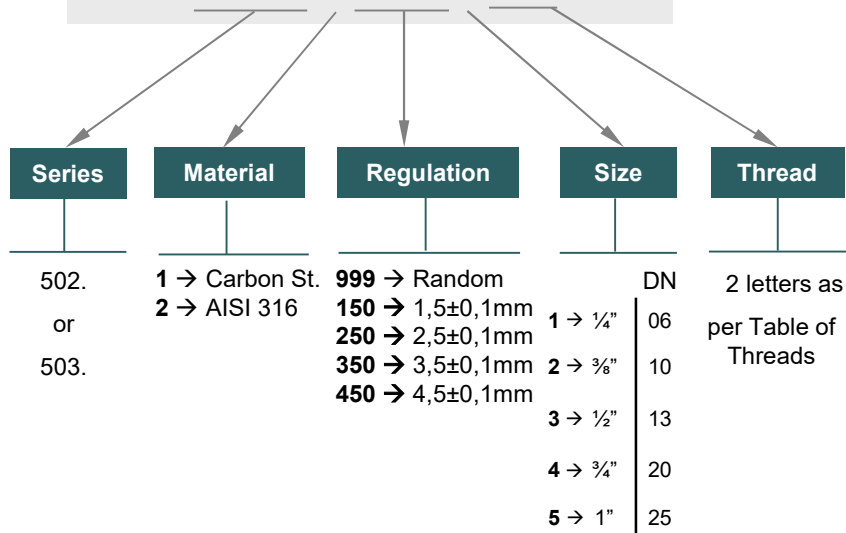
• **Sectors:** Industrial



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

**MODEL STRUCTURE**

**Example:**  
**502.19992AN**



• Random regulation for VPC (999) although it is possible to regulate them upon request.



# 502 SERIES

## VPC BSP



### OPERATION:

In normal position the disc is driven by the spring allowing fluid passage from Z to Z1.  
In normal conditions, the fluid returns also free to tank from Z1 to Z.

When the fluid passage increases from Z1 to Z, and the reaction flow exceeds, the disc blocks the return to tank, preventing uncontrolled descent.

The user can adjust the reaction flow (T), according to specific needs of this safety valve.

BODY M - F						
DN	ØA1	ØA2	REF.	CH1	B	E
06	1/4" BSP M.	1/4" BSP	502.19991AM	19	50	12
10	3/8" BSP M.	3/8" BSP	502.19992AN	22	59	13
13	1/2" BSP M.	1/2" BSP	502.19993AO	27	65	15
20	3/4" BSP M.	3/4" BSP	502.19994AP	36	78	16
25	1" BSP M.	1" BSP	502.19995AQ	41	92	18

BODY F - F					
DN	ØA1	ØA2	REF.	CH1	B
06	1/4" BSP	1/4" BSP	502.19991AB	19	48
10	3/8" BSP	3/8" BSP	502.19992AC	22	59
13	1/2" BSP	1/2" BSP	502.19993AD	27	62
20	3/4" BSP	3/4" BSP	502.19994AE	36	72
25	1" BSP	1" BSP	502.19995AF	41	86

CARTRIDGE				
DN	ØA1	REF.	ØG	L
06	1/4" BSP	503.19991AM	10	23
10	3/8" BSP	503.19992AN	13.80	23
13	1/2" BSP	503.19993AO	16	34
20	3/4" BSP	503.19994AP	20	34
25	1" BSP	503.19995AQ	24	43

### ★SPECIAL OPTIONS:

A hole for depressurization on the VPC valve can be delivered for minimum quantities upon request.  
Adding a three number code at the end of the reference depending on the diameter of the hole.

Examples:

Ø6 mm → 060

Ø10 mm → 100

## 502-2



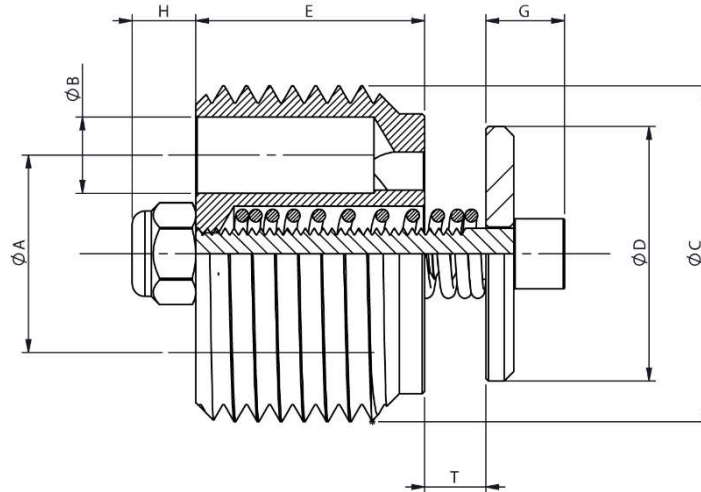


# 502 SERIES

## VPC BSP

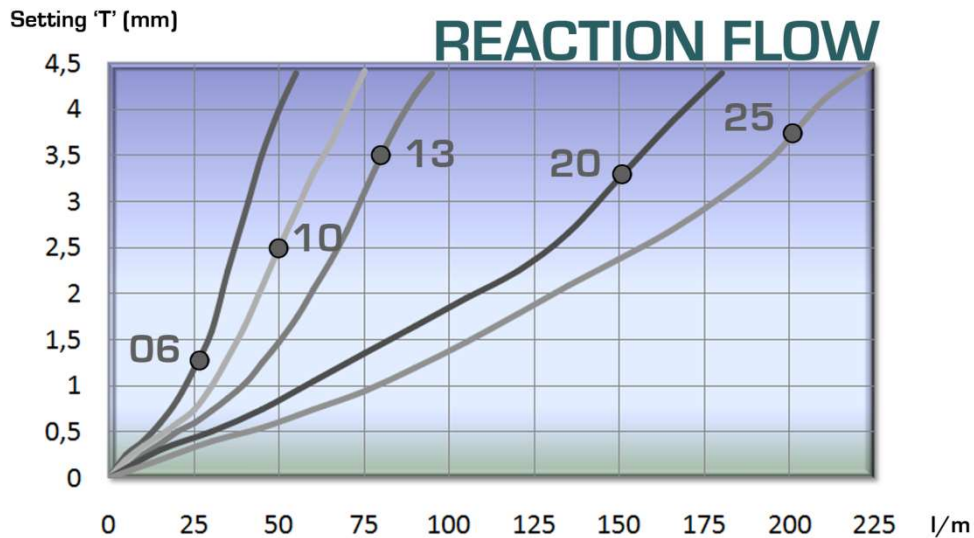


### REACTION FLOW



DN	Max. Flow Rate	Max. Pressure	A mm	B mm	C BSP	D mm	E mm	T mm	G mm	H mm
06	25 LPM	350 BAR	8.2	2.25	1/4"	10	9	See diagram below	5	4
10	50 LPM	350 BAR	11	3	3/8"	13.8	11		5	4
13	80 LPM	350 BAR	12	4.5	1/2"	16	13		5	5
20	150 LPM	350 BAR	15.5	6	3/4"	20	18		6.2	5
25	200 LPM	350 BAR	20	7	1"	24	21		7.5	5

Test performed according to ISO 18869



• Random regulation for VPC (999) although it is possible to regulate them upon request.

## 502-3

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.





# 504 SERIES

## ATR

CARBON STEEL / AISI 316  
BSP / NPTF



Designed to avoid returns of the fluid inside the hydraulic circuit.  
Metal closing system (without o-ring)  
High pressure peak resistance.  
Standard opening pressure 5psi. Special opening pressures available upon request.

### • Materials

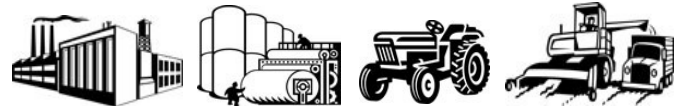
	CARBON STEEL	STAINLESS STEEL
Body	Carbon Steel EN-10277-3	AISI 316L
O-rings	NBR, Viton or EPDM	NBR, Viton or EPDM
Springs	Carbon Steel DIN 17233/84(B)	AISI302 DIN 17224

### • Working temperature (O-ring)

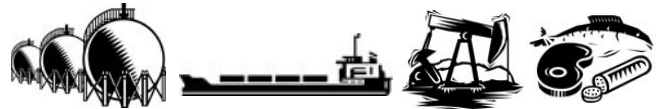
	NBR	Viton	EPDM
+	+100°C	+200°C	+150°C
-	-30°C	-10°C	-40°C

### • Sectors

Carbon Steel → Agricultural, Industrial.



Stainless Steel → Chemical, Industrial, Offshore.



• Applications: Designed for Oil hydraulic Applications

### • Equivalence:

GROMELLE 4000

DMIC CVH

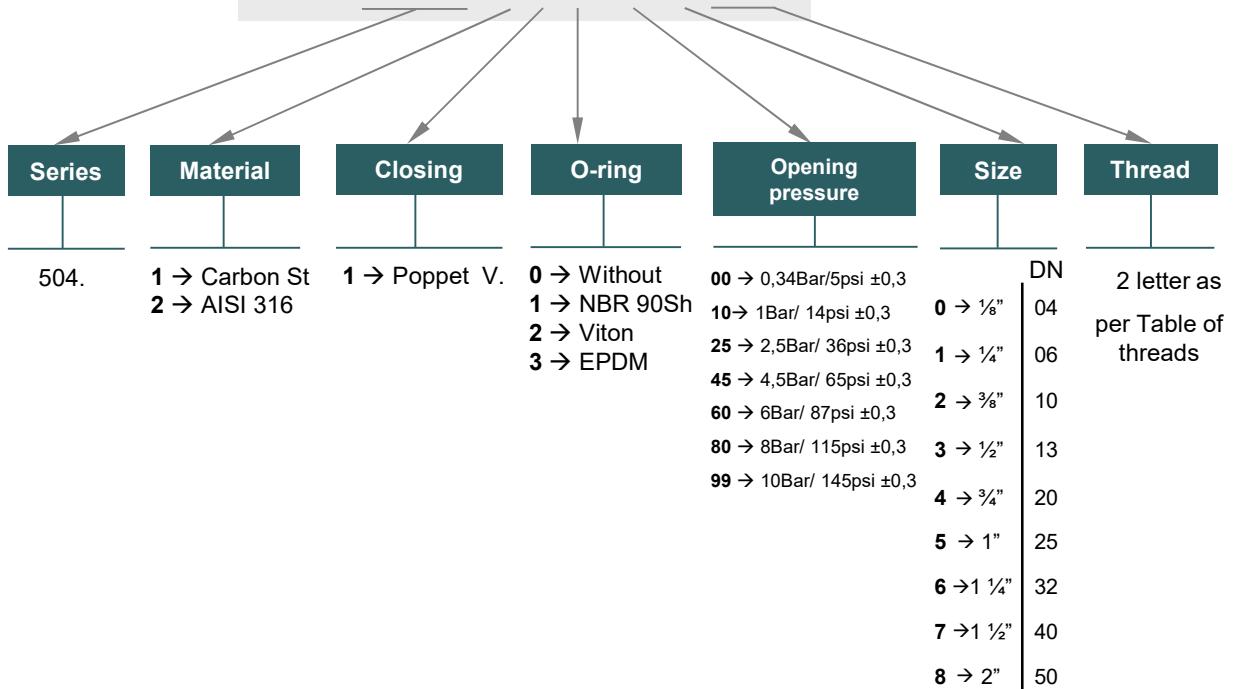
PARKER DC

SNAP TITE CPIFF

## MODEL STRUCTURE

Example:

# 504. 110006 AG



504-1

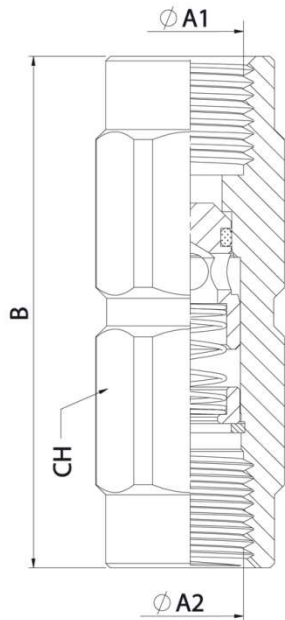




# 504 SERIES

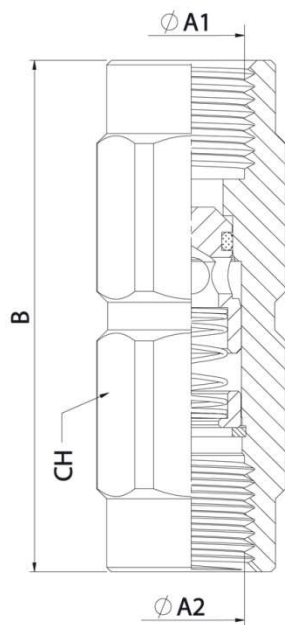
## ATR

CARBON STEEL / AISI 316  
BSP / NPTF



### STANDARD CARBON STEEL MODELS

DN	ØA1/ ØA2	REF.		CH	B
04	1/8" BSP	504.110000AA	300Bar	14	44
	1/8" NPTF	504.110000BA			
06	1/4" BSP	504.110001AB		19	56
	1/4" NPTF	504.110001BB			
10	3/8" BSP	504.110002AC		22	70
	3/8" NPTF	504.110002BC			
13	1/2" BSP	504.110003AD		30	77
	1/2" NPTF	504.110003BD			
20	3/4" BSP	504.110004AE		36	90
	3/4" NPTF	504.110004BE			
25	1" BSP	504.110005AF	46	106	
	1" NPTF	504.110005BF			
32	1 1/4" BSP	504.110006AG	55	125	
	1 1/4" NPTF	504.110006BG			
40	1 1/2" BSP	504.110007AH	60	140	
	1 1/2" NPTF	504.110007BH			
50	2" BSP	504.110008AI	75	160	
	2" NPTF	504.110008BI			



### STANDARD STAINLESS STEEL MODELS

DN	ØA1/ ØA2	REF.		CH	B
04	1/8" BSP	504.210000AA	300Bar	14	44
	1/8" NPTF	504.210000BA			
06	1/4" BSP	504.210001AB		19	56
	1/4" NPTF	504.210001BB			
10	3/8" BSP	504.210002AC		22	70
	3/8" NPTF	504.210002BC			
13	1/2" BSP	504.210003AD		30	77
	1/2" NPTF	504.210003BD			
20	3/4" BSP	504.210004AE		36	90
	3/4" NPTF	504.210004BE			
25	1" BSP	504.210005AF	46	106	
	1" NPTF	504.210005BF			
32	1 1/4" BSP	504.210006AG	55	125	
	1 1/4" NPTF	504.210006BG			
40	1 1/2" BSP	504.210007AH	60	140	
	1 1/2" NPTF	504.210007BH			
50	2" BSP	504.210008AI	75	160	
	2" NPTF	504.210008BI			

**★SPECIAL OPTIONS:**

ATR Check Valves that require special opening pressures can be delivered upon request by minimum quantities.





# 504 SERIES

## ATR

CARBON STEEL / AISI 316  
BSP / NPTF

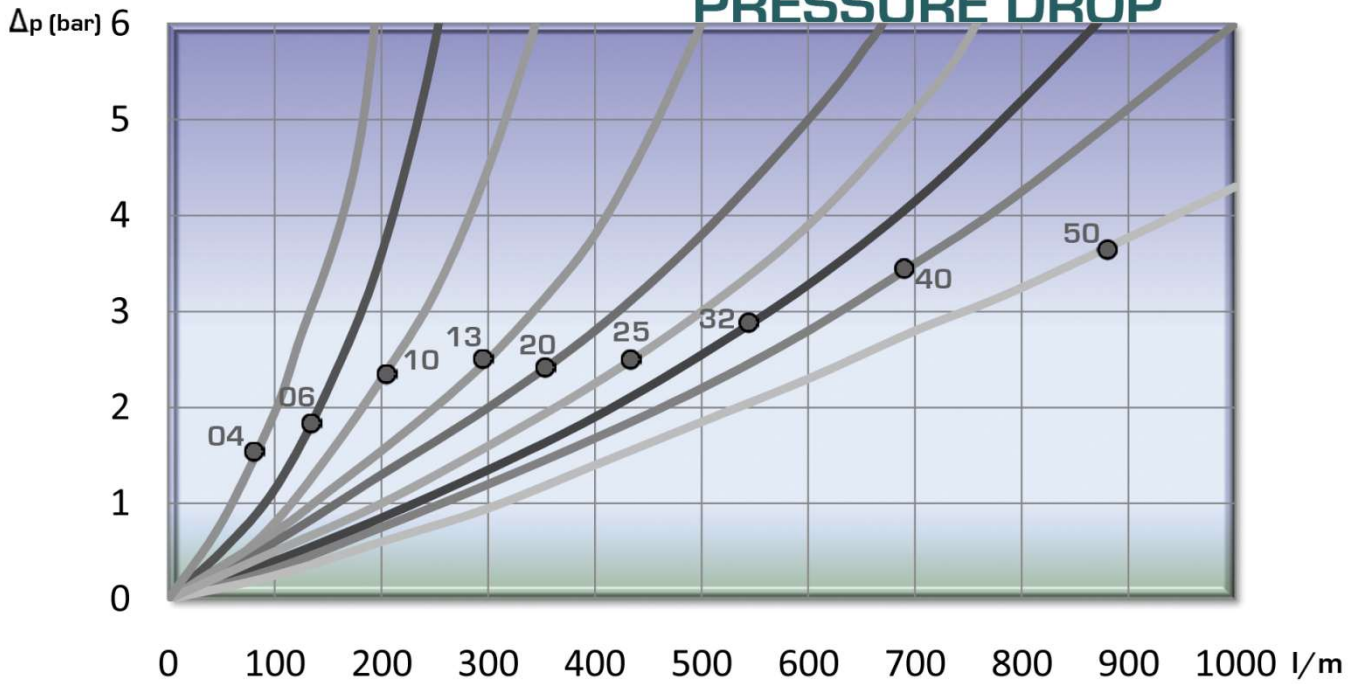


### TECHNICAL DATA

DN	Max. Rated Flow	Max. Working Pressure	Min Burst Pressure (bar)
	l/m / GPM	Bar / psi	Bar / psi
04	8 / 2.11	300 / 4350	1200 / 17400
06	26 / 6.87	300 / 4350	1200 / 17400
10	44 / 11.6	300 / 4350	1200 / 17400
13	90 / 23.85	300 / 4350	1200 / 17400
20	152 / 40.2	300 / 4350	1200 / 17400
25	200 / 52.8	300 / 4350	1200 / 17400
32	370 / 97.8	300 / 4350	1200 / 17400
40	598 / 158	300 / 4350	1200 / 17400
50	875 / 231	200 / 2900	800 / 11600

Test performed according to ISO 18869

### PRESSURE DROP



504-3

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.





# 505 SERIES ATR

BSP  
M - F



Designed to avoid returns of the fluid inside the hydraulic circuit.  
Metal closing system (without o-ring)  
High pressure peak resistance.  
Standard opening pressure 5psi. Special opening pressures available upon request.

### • Materials

Carbon Steel EN10277-3 / Inox AISI 316L

Springs: Carbon Steel DIN 17233/84(B)

O-rings: NBR, Viton or EPDM

• **Applications:** Designed for Oil hydraulic Applications

### • Equivalence:

GROMELLE 4000

DMIC CVH

PARKER DC

SNAP TITE CPIFF

### • Working temperature (O-ring)

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

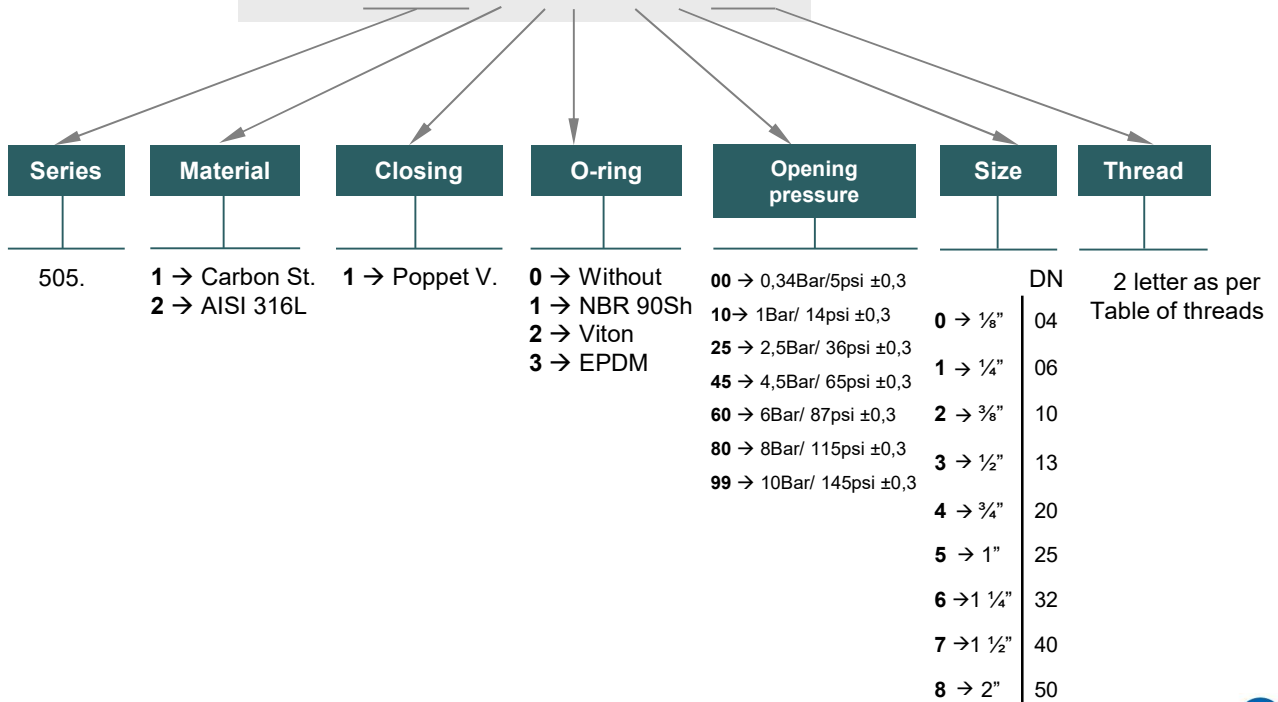
• **Sectors:** Agricultural, Industrial.



## MODEL STRUCTURE

Example:

**505. 210008 BI**



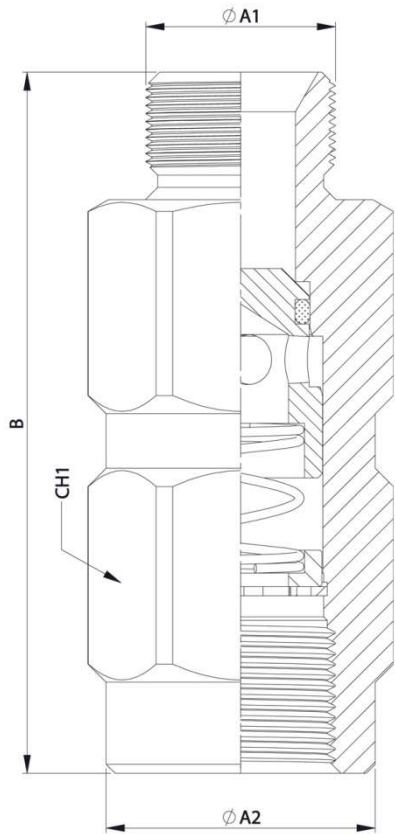
**505-1**



# 505 SERIES

## ATR

BSP  
M - F



### STANDARD MODELS

DN	ØA1	ØA2	REF.		CH1	B
04	1/8" BSP M.	1/8" BSP	505.110000AL	300Bar	14	44
06	1/4" BSP M.	1/4" BSP	505.110001AM		19	56
10	3/8" BSP M.	3/8" BSP	505.110002AN		22	70
13	1/2" BSP M.	1/2" BSP	505.110003AO		30	77
20	3/4" BSP M.	3/4" BSP	505.110004AP		36	90
25	1" BSP M.	1" BSP	505.110005AQ		46	106
32	1 1/4" BSP M.	1 1/4" BSP	505.110006AR		55	125
40	1 1/2" BSP M.	1 1/2" BSP	505.110007AS	60	140	
50	2" BSP M.	2" BSP	505.110008AT	200Bar	75	160

**★SPECIAL OPTIONS:**

ATR Check Valves that require special opening pressures can be delivered upon request by minimum quantities.



# 505 SERIES

## ATR

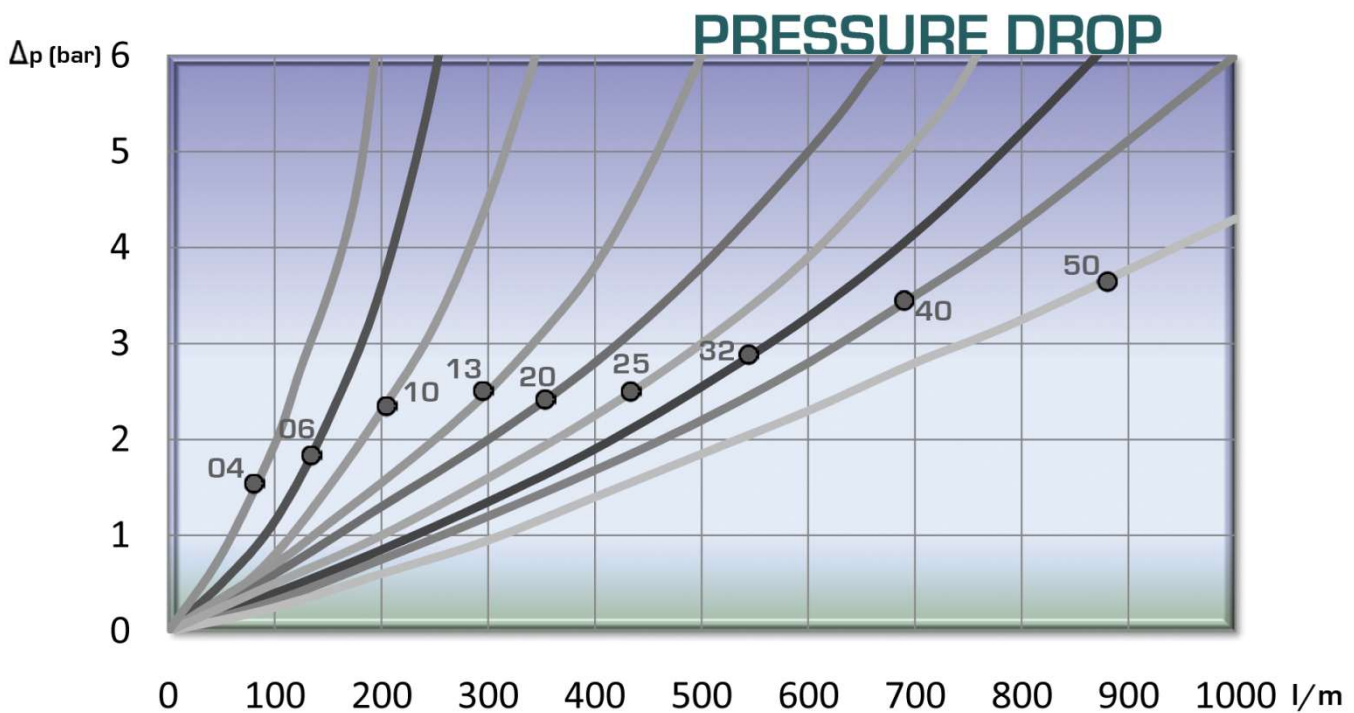
BSP  
M - F



### TECHNICAL DATA

DN	Max. Rated Flow	Working Pressure	Max. Working Pressure
	l/m GPM	Bar / psi	Bar / psi
04	8 / 2.11	300 / 4350	1200 / 17400
06	26 / 6.87	300 / 4350	1200 / 17400
10	44 / 11.6	300 / 4350	1200 / 17400
13	90 / 23.85	300 / 4350	1200 / 17400
20	152 / 40.2	300 / 4350	1200 / 17400
25	200 / 52.8	300 / 4350	1200 / 17400
32	370 / 97.8	300 / 4350	1200 / 17400
40	598 / 158	300 / 4350	1200 / 17400
50	875 / 231	200 / 2900	800 / 11600

Test performed according to ISO 18869



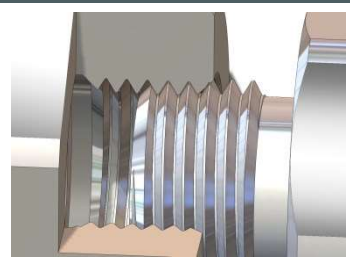
505-3



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.

v8





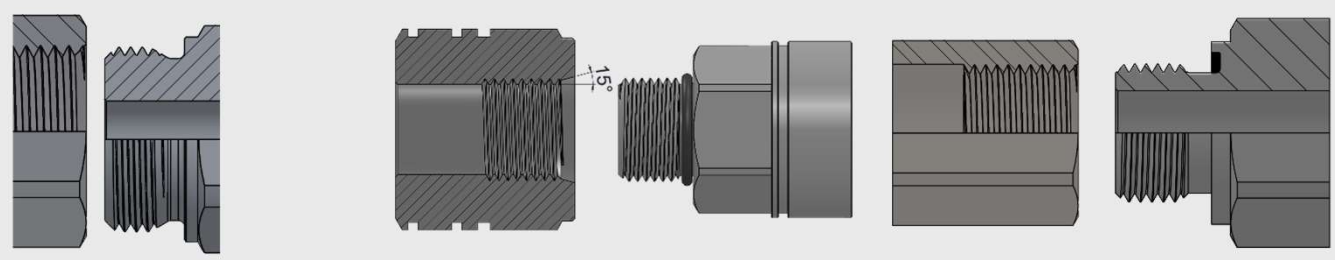
# SERIE 999 THREADS



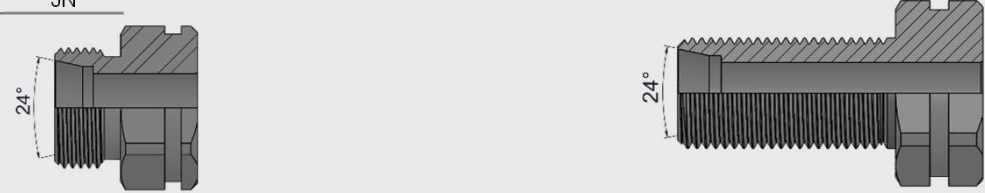
## METRIC THREADS ISO 261

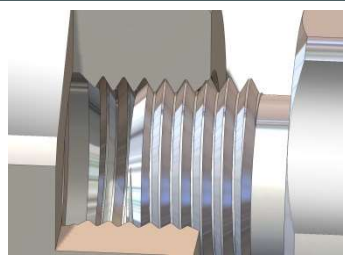
### FINAL CONECTION

DIN 3852-1 B / ISO 9974-3			ISO 6149-2 (ORB)			ISO 9974-2 (E) / DIN3852-11		
THREAD	FEMALE	MALE	THREAD	FEMALE	MALE	THREAD	FEMALE	MALE
M8x1	NA	PA	M8x1	EA	OA	M8x1	NA	QA
M10x1	NB	PB	M10x1	EC	OC	M10x1	NB	QB
M12x1,5	NC	PC	M12x1,5	EE	OE	M12x1,5	NC	QC
M14x1,5	ND	PD	M14x1,5	EF	OF	M14x1,5	ND	QD
M16x1,5	NE	PE	M16x1,5	EG	OG	M16x1,5	NE	QE
M18x1,5	NF	PF	M18x1,5	EH	OH	M18x1,5	NF	QF
M20x1,5	NG	PG	M20x1,5	EK	OK	M20x1,5	NG	QG
M22x1,5	NH	PH	M22x1,5	EM	OM	M22x1,5	NH	QH
M24x1,5	NI	PI	M27x2	-	-	M26x1,5	NO	QO
M26x1,5	NO	PO	M30x2	EJ	OJ	M27x2	-	-
M27x2	-	-	M33x2	EQ	OQ	M30x2	NJ	QJ
M30x2	NJ	PJ	M42x2	ET	OT	M33x2	NK	QK
M33x2	NK	PK	M48x2	EU	OU	M42x2	NL	QL
M42x2	NL	PL	M60x2	EV	OV	M48x2	NM	QM
M48x2	NM	PM						



ISO 8434-1 / DIN3861				ISO 8434-1 Bulkhead / DIN3861			
THREAD	L	THREAD	S	THREAD	L	THREAD	S
M12x1,5 6L	JB	M16x1,5 8S	KD	M12x1,5 6L	LB	M16x1,5 8S	MD
M14x1,5 8L	JC	M18x1,5 10S	KE	M14x1,5 8L	LC	M18x1,5 10S	ME
M16x1,5 10L	JD	M20x1,5 12S	KF	M16x1,5 10L	LD	M20x1,5 12S	MF
M18x1,5 12L	JE	M22x1,5 14S	KG	M18x1,5 12L	LE	M22x1,5 14S	MG
M22x1,5 15L	JG	M24x1,5 16S	KH	M22x1,5 15L	LG	M24x1,5 16S	MH
M26x1,5 18L	JI	M30x2 20S	KJ	M26x1,5 18L	LI	M30x2 20S	MJ
M30x2 22L	JJ	M36x2 25S	KK	M30x2 22L	LJ	M36x2 25S	MK
M36x2 28L	JK	M42x2 30S	KL	M36x2 28L	LK	M42x2 30S	ML
M45x2 35L	JM	M52x2 38S	KN	M45x2 35L	LM	M52x2 38S	MN
M52x2 42L	JN						





# SERIE 999 THREADS



## UNIFIED STEP THREADS ASME B1.1

### FINAL CONECTION

#### SAE 37° (JIC) / J514 ISO 8434-2

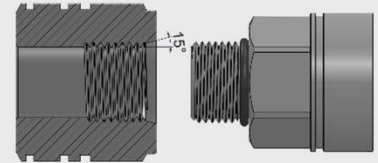
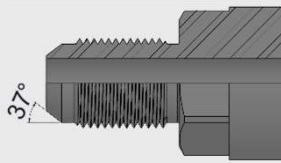
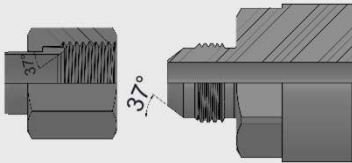
THREAD	FEMALE	MALE
3/8" -24UNF	UA	YA
7/16"-20UNF	UB	YB
1/2" - 20UNF	UC	YC
9/16"-18UNF	UD	YD
11/16"-16UN	UE	YE
3/4"-16UNF	UF	YF
13/16"-16UN	UG	YG
7/8"-14UNF	UH	YH
1 1/16"-12UN	UK	YK
1 3/16"-12UN	UM	YM
1 5/16"-12UN	UO	YO
1 7/16"-12UN	UQ	YQ
1 5/8"-12UN	UT	YT
1 11/16"-12UN	UU	YU
1 7/8"-12UN	UV	YV

#### 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

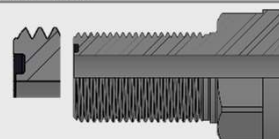
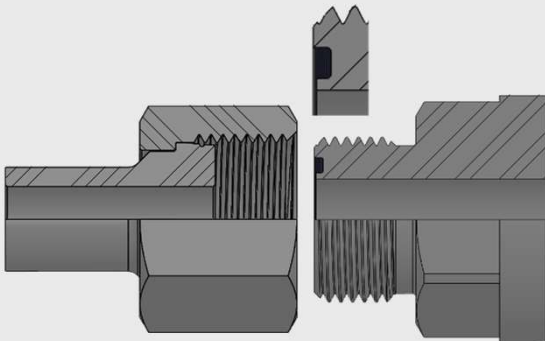


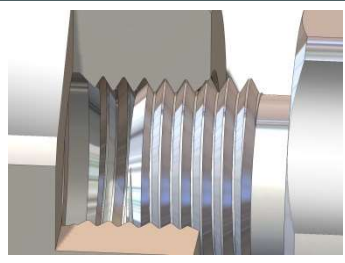
#### SAEJ1453 / ISO 8434-3 (ORFS)

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





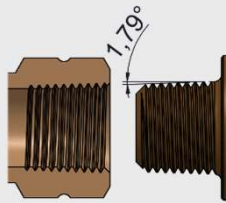
# SERIE 999 THREADS



## CONICAL THREADS

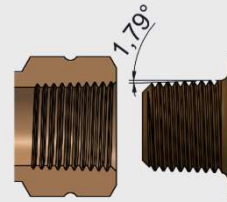
### NPTF ASME B1.20.3

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

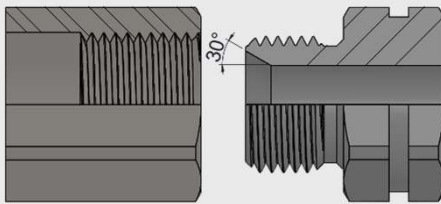


## THREAD BSP ISO 228/1

## FINAL CONECTION

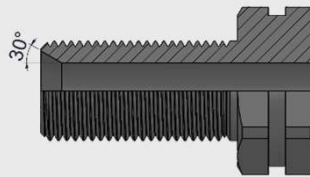
### BSPB / BS5200

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



### BSPB 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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