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check valves

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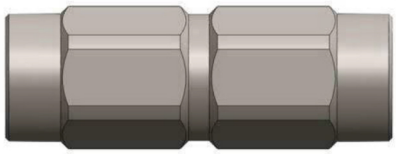
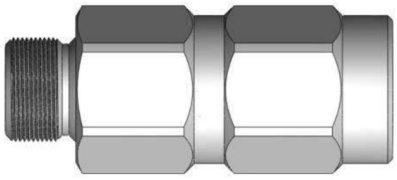
504 ..... ATR Series 

505 ..... ATR Series 

INTEVA

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 according to European Directive 97.23.EC
Special for American market

MODEL STRUCTURE

Example;

502.19992AN

Series	Material	Regulation	Size	Thread
502. or 503.	**1** → Carbon St. **2** → AISI 316	**999** → Random **150** → 1,5±0,1mm **250** → 2,5±0,1mm **350** → 3,5±0,1mm **450** → 4,5±0,1mm		2 letters as per Table of Threads

	DN
1 → ¼"	06
2 → ⅜"	10
3 → ½"	13
4 → ¾"	20
5 → 1"	25

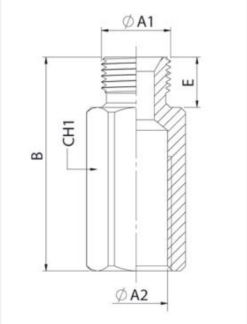
• Random regulation for VPC (999) although it is possible to regulate them upon request.

INTEVA S.A. Reserves the right to make modifications in its products without prior notice

502 SERIES
VPC BSP

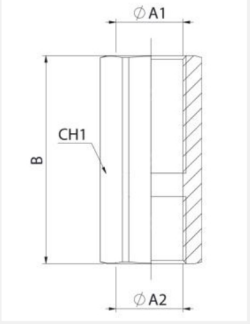
OPERATION:

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.



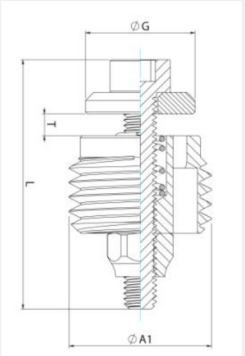
BODY M - F

DN	ØA1	ØA2	REF.	CH1	B	E	
06	¼" BSP M.	¼" BSP	502.19991AM	19	50	12	
10	⅜" BSP M.	⅜" BSP	502.19992AN	22	59	13	
13	½" BSP M.	½" BSP	502.19993AO	27	65	15	350Bar
20	¾" BSP M.	¾" 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	¼" BSP	¼" BSP	502.19991AB	19	48	
10	⅜" BSP	⅜" BSP	502.19992AC	22	59	
13	½" BSP	½" BSP	502.19993AD	27	62	350Bar
20	¾" BSP	¾" BSP	502.19994AE	36	72	
25	1" BSP	1" BSP	502.19995AF	41	86	



CARTRIDGE

DN	ØA1	REF.	ØG	L	
06	¼" BSP	503.19991AM	10	23	
10	⅜" BSP	503.19992AN	13.80	23	
13	½" BSP	503.19993AO	16	34	350Bar
20	¾" BSP	503.19994AP	20	34	
25	1" BSP	503.19995AQ	24	43	

★SPECIAL OPTIONS:

A hole for despressurization 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

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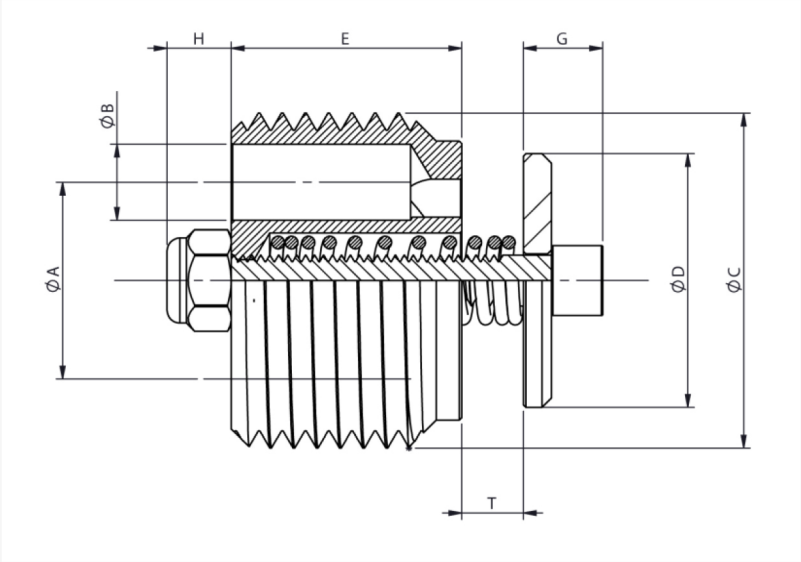
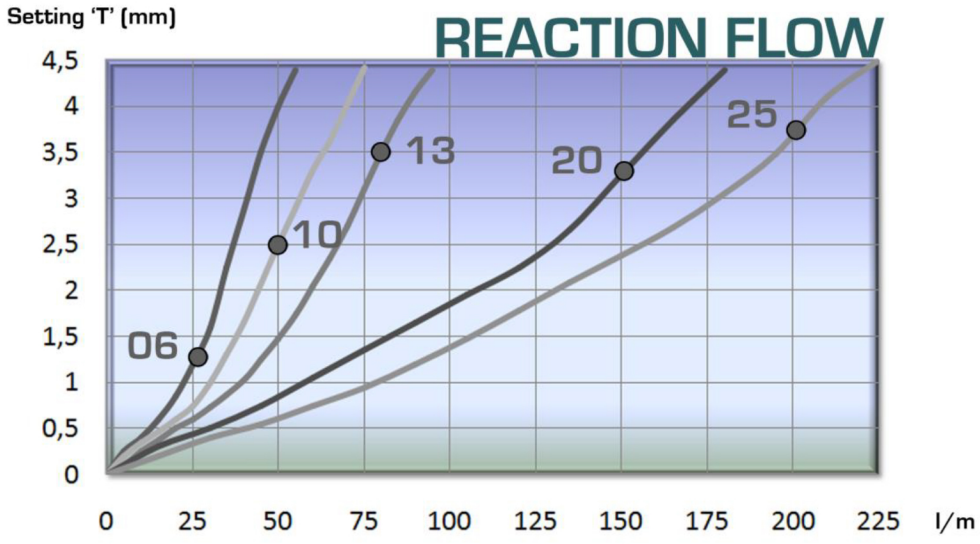
502 SERIES
VPC BSP

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



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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 avaible upon request.

• Materials

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

• Working temperature (Seals)

	NBR	Viton	EPDM
	+100ºC	+200ºC	+150ºC
	-30ºC	-10ºC	-40ºC

• Sectors

Carbon Steel → Agricultural, Industrial.

Stainless Steel → Chemical, Industrial, Offshore.

• Applications:

Designed for Oil hydraulic Applications according to European Directive 97.23.EC
Special for American market

• Equivalence:

GROMELLE 4000
DMIC CVH
PARKER DC
SNAP TITE CPIFF

MODEL STRUCTURE

Example;

504. 110006 AG

Series	Material	Closing	O-ring	Opening pressure	Size	Thread
504.	**1** → Carbon St **2** → AISI 316	**1** → Poppet V.	**0** → Without **1** → NBR 90Sh **2** → Viton **3** → EPDM	**00** → 0,34Bar/5psi ±0,3 **10**→ 1Bar/ 14psi ±0,3 **25** → 2,5Bar/ 36psi ±0,3 **45** → 4,5Bar/ 65psi ±0,3 **60** → 6Bar/ 87psi ±0,3 **80** → 8Bar/ 115psi ±0,3 **99** → 10Bar/ 145psi ±0,3		2 letter as per Table of threads

	DN
0 → ⅛"	04
1 → ¼"	06
2 → ⅜"	10
3 → ½"	13
4 → ¾"	20
5 → 1"	25
6 →1 ¼"	32
7 →1 ½"	40
8 → 2"	50

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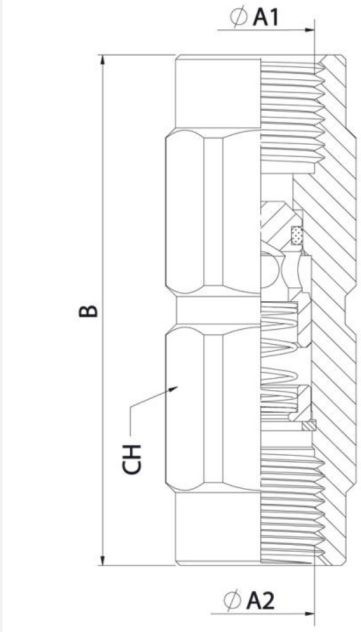
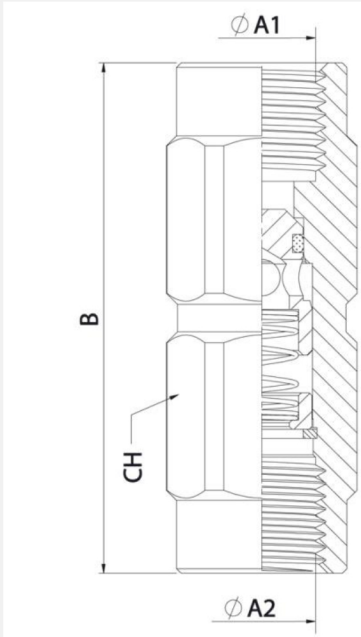
504 SERIES
ATR

CARBON STEEL / AISI 316
BSP / NPTF



STANDARD *CARBON STEEL* MODELS

DN	ØA1/ ØA2	REF.		CH	B
04	⅛" BSP	504.110000AA	300Bar	14	44
	⅛" NPTF	504.110000BA			
06	¼" BSP	504.110001AB		19	56
	¼" NPTF	504.110001BB			
10	⅜" BSP	504.110002AC		22	70
	⅜" NPTF	504.110002BC			
13	½" BSP	504.110003AD		30	77
	½" NPTF	504.110003BD			
20	¾" BSP	504.110004AE		36	90
	¾" NPTF	504.110004BE			
25	1" BSP	504.110005AF		46	106
	1" NPTF	504.110005BF			
32	1 ¼" BSP	504.110006AG		55	125
	1 ¼" NPTF	504.110006BG			
40	1 ½" BSP	504.110007AH		60	140
	1 ½" NPTF	504.110007BH			
50	2" BSP	504.110008AI	200Bar	75	160
	2" NPTF	504.110008BI			



STANDARD *STAINLESS STEEL* MODELS

DN	ØA1/ ØA2	REF.		CH	B
04	⅛" BSP	504.210000AA	300Bar	14	44
	⅛" NPTF	504.210000BA			
06	¼" BSP	504.210001AB		19	56
	¼" NPTF	504.210001BB			
10	⅜" BSP	504.210002AC		22	70
	⅜" NPTF	504.210002BC			
13	½" BSP	504.210003AD		30	77
	½" NPTF	504.210003BD			
20	¾" BSP	504.210004AE		36	90
	¾" NPTF	504.210004BE			
25	1" BSP	504.210005AF		46	106
	1" NPTF	504.210005BF			
32	1 ¼" BSP	504.210006AG		55	125
	1 ¼" NPTF	504.210006BG			
40	1 ½" BSP	504.210007AH		60	140
	1 ½" NPTF	504.210007BH			
50	2" BSP	504.210008AI	200Bar	75	160
	2" NPTF	504.210008BI			

★*SPECIAL OPTIONS:*
ATR Check Valves that require special opening pressures can be delivered upon request by minimum quantities.

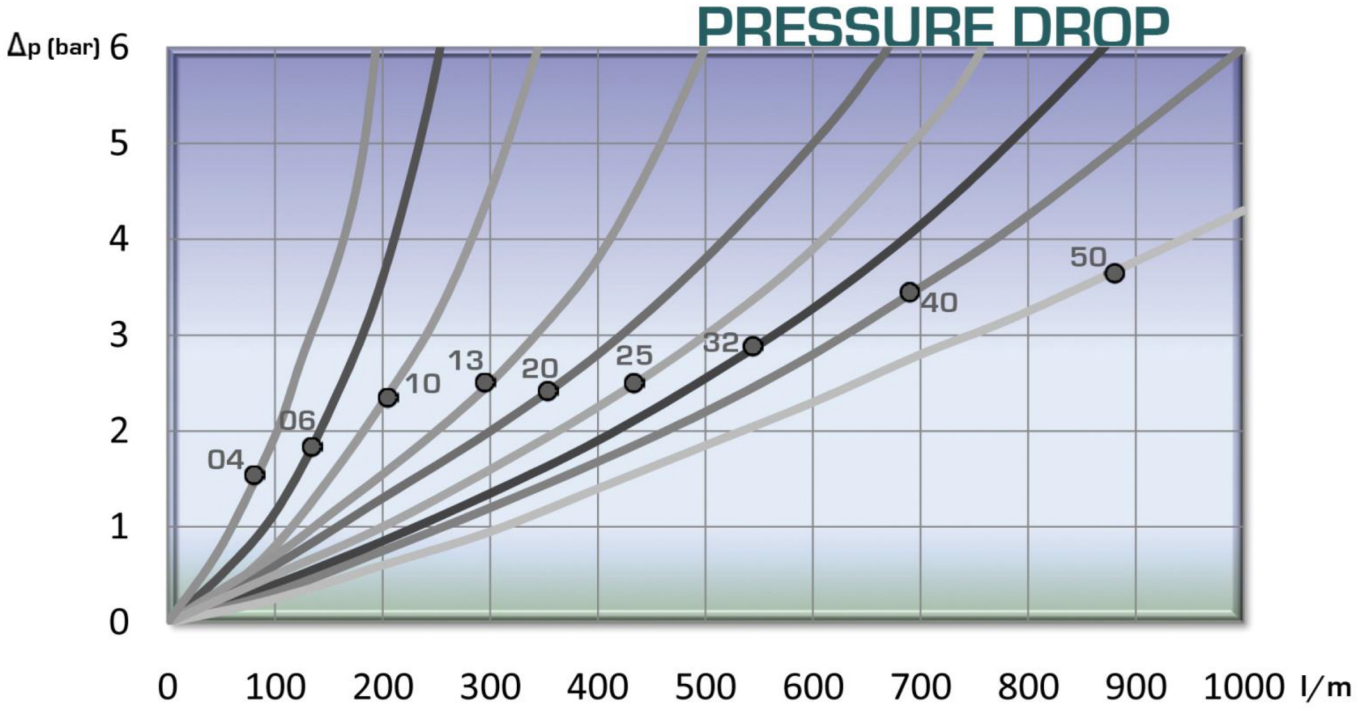
INTEVA S.A. Reserves the right to make modifications in its products without prior notice

504 SERIES
ATR

CARBON STEEL / AISI 316
BSP / NPTF

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



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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 avaible 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 according to European Directive 97.23.EC
Special for American market

• Equivalence:

GROMELLE 4000	DMIC CVH
PARKER DC	SNAP TITE CPIFF

• Working temperature (Seals)

	NBR	Viton	EPDM
	+100ºC	+200ºC	+150ºC
	-30ºC	-10ºC	-40ºC

• Sectors:

Agricultural, Industrial.

MODEL STRUCTURE

Example;

505. 210008 BI

Series	Material	Closing	O-ring	Opening pressure	Size	Thread
505.	**1** → Carbon St. **2** → AISI 316L	**1** → Poppet V.	**0** → Without **1** → NBR 90Sh **2** → Viton **3** → EPDM	**00** → 0,34Bar/5psi ±0,3 **10**→ 1Bar/ 14psi ±0,3 **25** → 2,5Bar/ 36psi ±0,3 **45** → 4,5Bar/ 65psi ±0,3 **60** → 6Bar/ 87psi ±0,3 **80** → 8Bar/ 115psi ±0,3 **99** → 10Bar/ 145psi ±0,3		2 letter as per Table of threads

	DN
0 → ⅛"	04
1 → ¼"	06
2 → ⅜"	10
3 → ½"	13
4 → ¾"	20
5 → 1"	25
6 →1 ¼"	32
7 →1 ½"	40
8 → 2"	50

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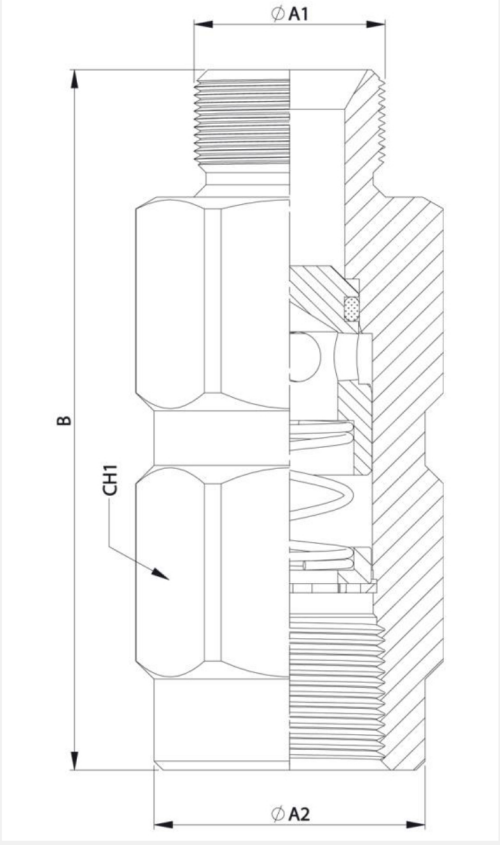
505 SERIES
ATR

BSP
M - F



STANDARD MODELS

DN	ØA1	ØA2	REF.		CH1	B
04	⅛" BSP M.	⅛" BSP	505.110000AL		14	44
06	¼" BSP M.	¼" BSP	505.110001AM		19	56
10	⅜" BSP M.	⅜" BSP	505.110002AN		22	70
13	½" BSP M.	½" BSP	505.110003AO	300Bar	30	77
20	¾" BSP M.	¾" BSP	505.110004AP		36	90
25	1" BSP M.	1" BSP	505.110005AQ		46	106
32	1 ¼" BSP M.	1 ¼" BSP	505.110006AR		55	125
40	1 ½" BSP M.	1 ½" 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.

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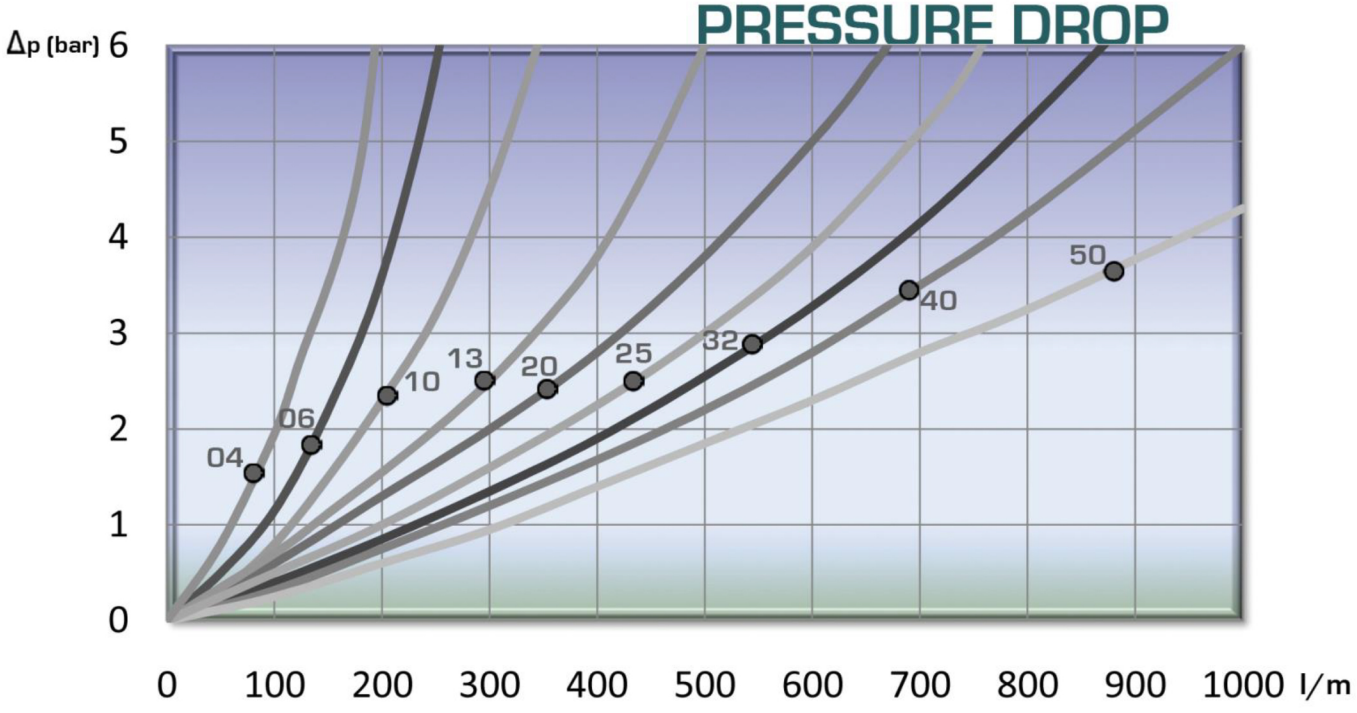
505 SERIES
ATR

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

PRESSURE DROP



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