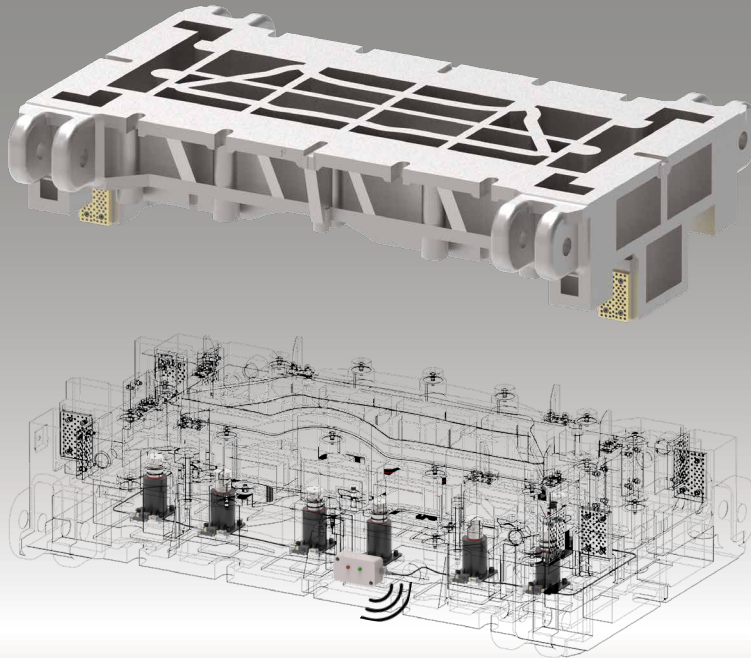




LINKED SYSTEMS



Optimize the gas springs force in your metal stamping dies and injection molds using AZOLGAS linked systems

Benefits of AZOLGAS linked systems:

- to balance the force in different areas of the tool
- to charge, drain and adjust the pressure
- to control the pressure through a control panel
- to monitor and automate response actions by sensors

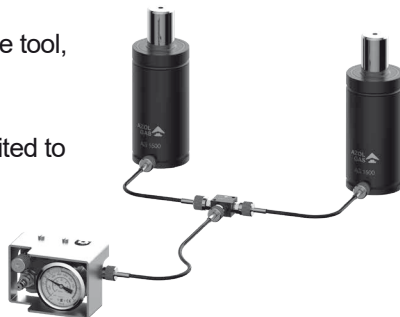
EVERYTHING you need to design and assemble AZOLGAS linked system.

EASY to find and configure the right hoses and components based on fitting port type.

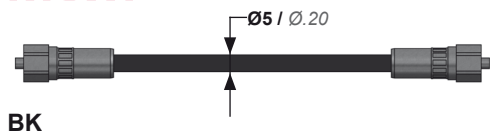
AZOLGAS linked systems fulfill different main automotive standards.

AZOLGAS linked system for every need: compact size tool, high volume gas flow, high vibration.

We ASSIST YOU to design the best linked system suited to your application.

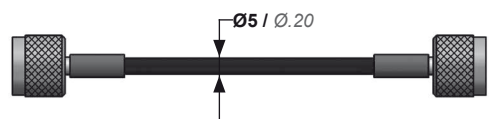


M8x1



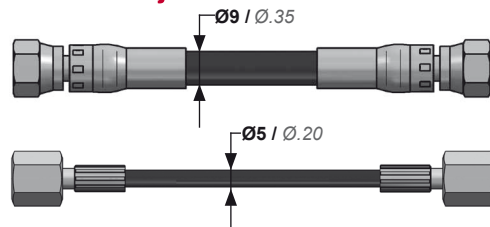
BK

S12,65x1,5



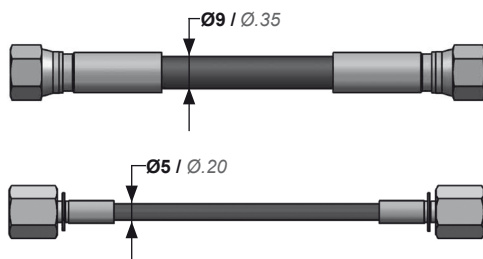
SGS / RGS / PGS / RGR / PGP

M12x1,5



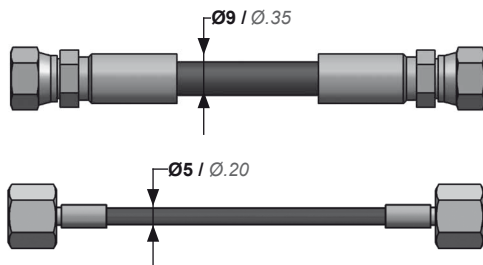
TNRR / TNRL / TNLL / TNRC / TNLC
HJRR / HJRL / HJLL

7/16"



TFRR / TFRL / TFL / SMRR

9/16"

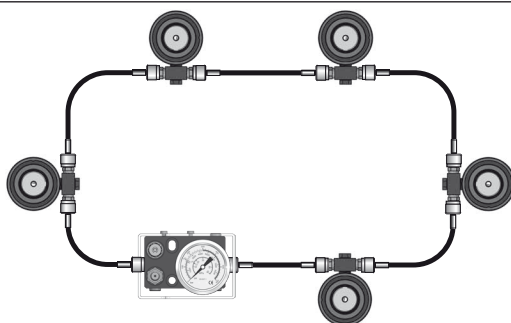


MCRR / MCRL / MCLL / GTRR / GTRL / GTLL

HOSED SYSTEMS ADVANTAGES

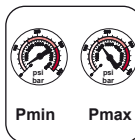
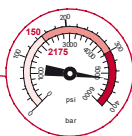
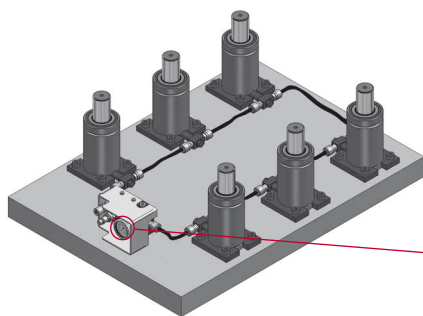
Hosed Systems

AZOL
GAS

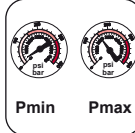


Using gas springs in hosed systems let the end user profit the following advantages.

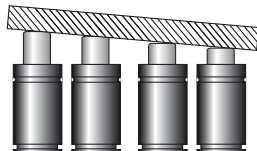
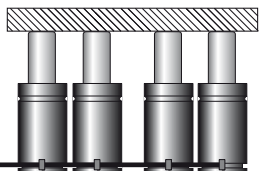
Follow the safety and operating instructions contained in the guide Gas springs hosed systems.



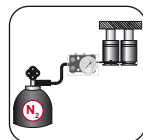
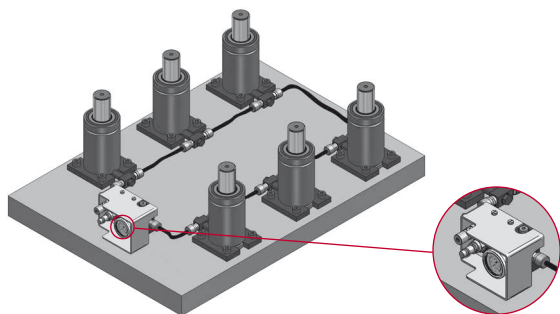
To control the pressure of all the hosed gas springs from outside the die set.



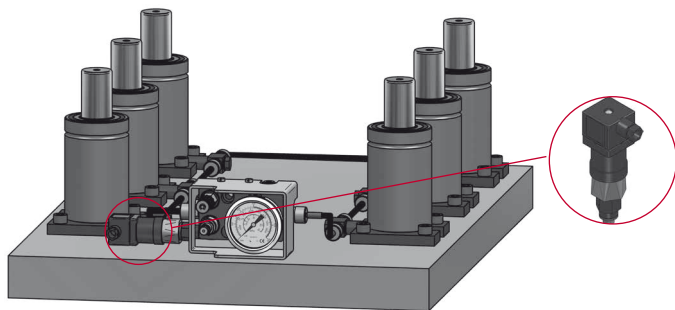
To keep the same pressure in all the hosed gas springs.



To keep the same force in all the hosed gas springs with the same technical features.



To charge, drain and adjust the pressure of the hosed gas springs through the control panel.

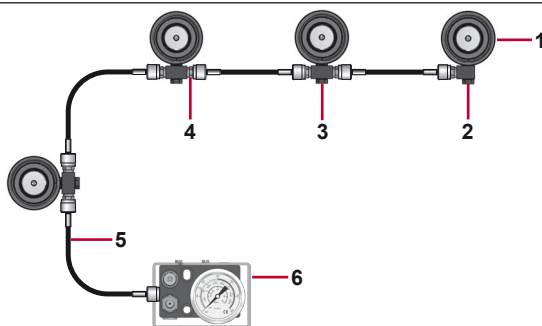


To use additional warning or emergency stop systems (pressure switch) when the pressure is higher or lower than a predefined value.

HOSED SYSTEMS EXAMPLES

*Hosed Systems***AZOL
GAS**

EXAMPLE 1

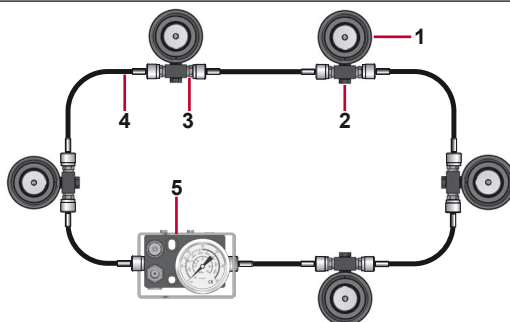


- | | |
|-----|------------------|
| 1.- | AG (x4) |
| 2.- | CF 01 24 (x1) |
| 3.- | CF 02 40 (x3) |
| 4.- | SKK 12R 1/8 (x8) |
| 5.- | SGS XXXX (x4) |
| 6.- | 600-CP (x1) |

Hosed system in series.

System used when there is no uniform distribution of gas springs through all the surface of the die set.

EXAMPLE 2

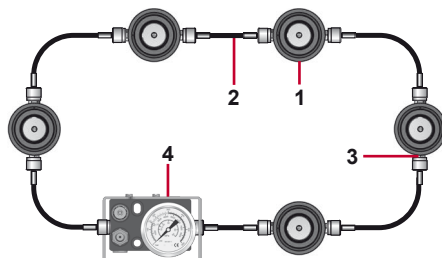


- | | |
|-----|-------------------|
| 1.- | AG (x5) |
| 2.- | CF 02 (x5) |
| 3.- | SKK 12R 1/8 (x12) |
| 4.- | SGS XXXX (x6) |
| 5.- | 600-CP (x1) |

Hosed system in circuit.

System used when there is a uniform distribution of gas springs through all the surface of the die set.

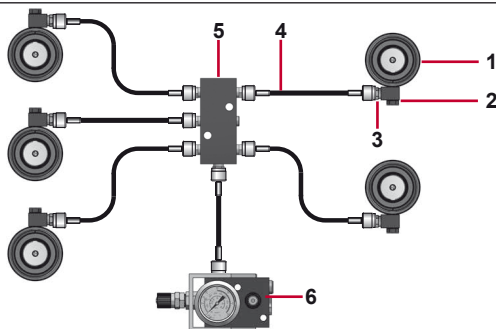
EXAMPLE 3



- | | |
|-----|-------------------|
| 1.- | AGB-H (x5) |
| 2.- | SGS XXXX (x6) |
| 3.- | SKK 12R 1/8 (x12) |
| 4.- | 600-CP (x1) |

Hosed system with double filling port gas springs.

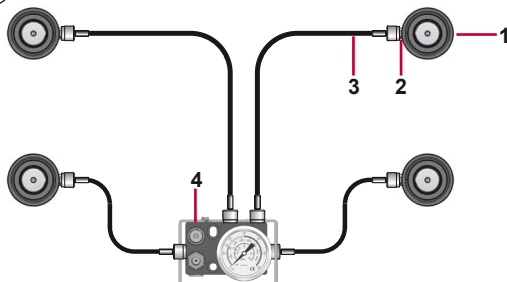
System used when there is a uniform distribution of gas springs through all the surface of the die set, but additionally it is necessary to compact the required space.

EXAMPLE 4


- | | |
|-----|-------------------|
| 1.- | AG (x5) |
| 2.- | CF 01 24 (x5) |
| 3.- | SKK 12R 1/8 (X12) |
| 4.- | SGS XXXX (x6) |
| 5.- | PLD 6 (x1) |
| 6.- | 600-CP (x1) |

Hosed system through distribution block.

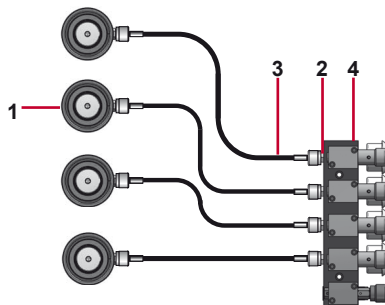
System used when the design of the die set do not let the use of hosed system in circuit.

EXAMPLE 5


- | | |
|-----|------------------|
| 1.- | AG (x4) |
| 2.- | SKK 12R 1/8 (x8) |
| 3.- | SGS XXXX (x4) |
| 4.- | 600-CP (x1) |

Hosed system direct to a control panel.

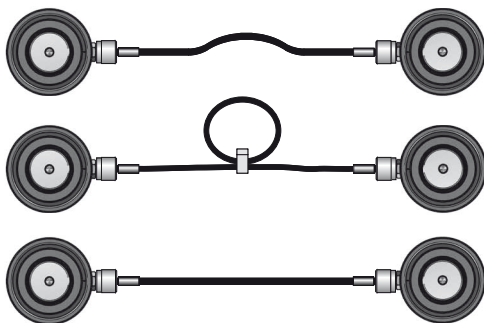
System used to simplify the connection of hosed system, preventing T-connections and elbows.

EXAMPLE 6


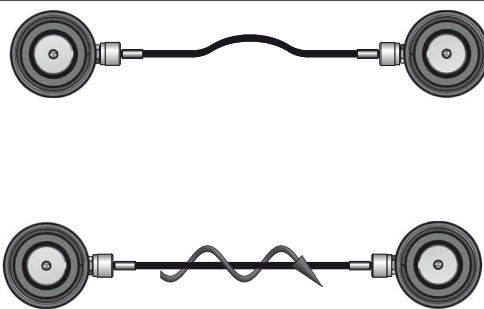
- | | |
|-----|-------------------|
| 1.- | AG (x4) |
| 2.- | SKK 12R 1/8 (x8) |
| 3.- | SGS XXXX (x4) |
| 4.- | 400-CPFG_ 01 (x1) |

Hosed system direct to a multiple control panel.

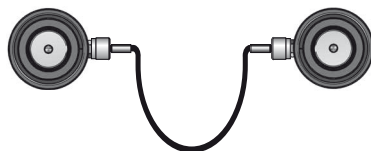
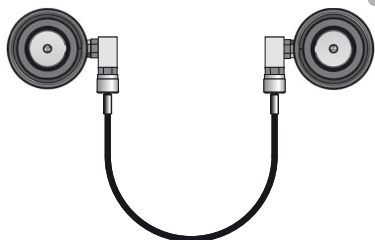
System used to ensure individual and independent pressure of each gas spring, connected to the control panel.

FITTING HOSES*Hosed Systems***AZOL**
GAS 

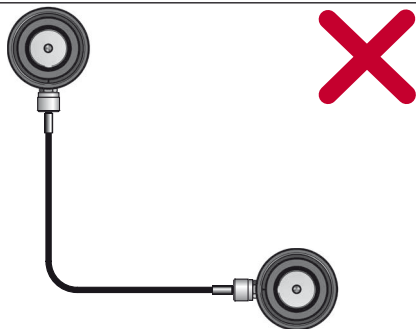
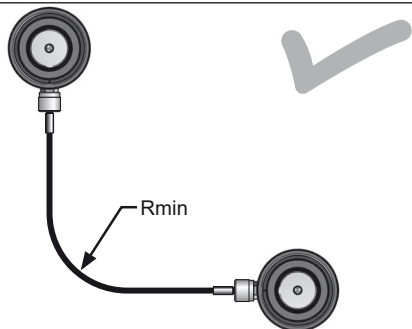
To obtain the best working performance on connected systems, please follow these recommendations:



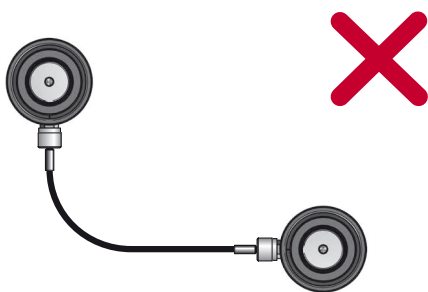
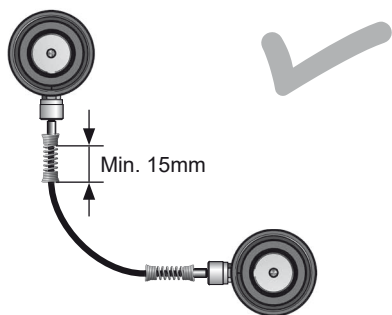
Select a hose length that allows certain tolerance within connected cylinders.



Do not twist the hoses.
Select appropriate hose fittings to prevent undesired bends in the hoses.

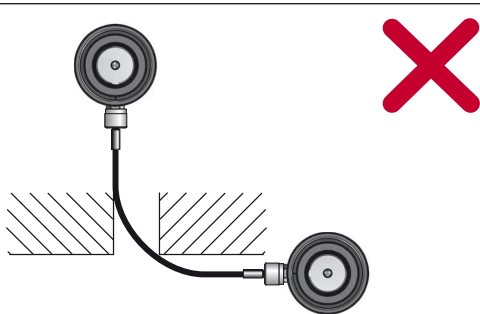
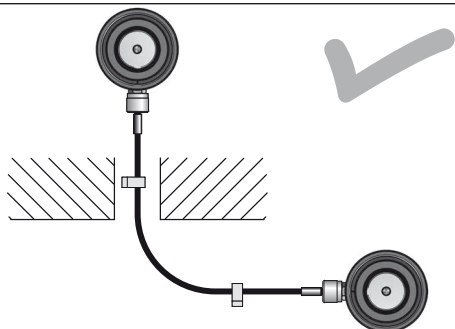


Respect the minimum radius recommended for each type of hose.



Respect the minimum gap to start bending the hose.

Use the PF 02 hose protectors.



Fix the hose to the die in the right way to prevent any mechanical damage on the hose when operating.

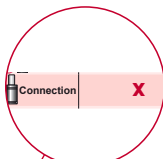
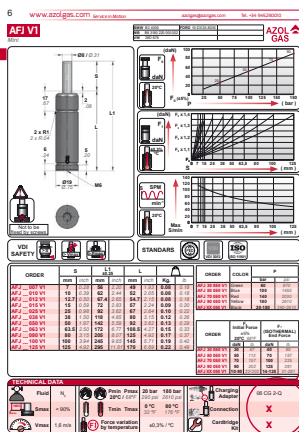
Use hose clamps RBP 5 or RBP 10 according to the type of hose diameter.

SELF-CONTAINED AND HOSED

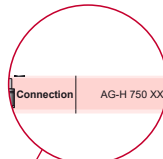
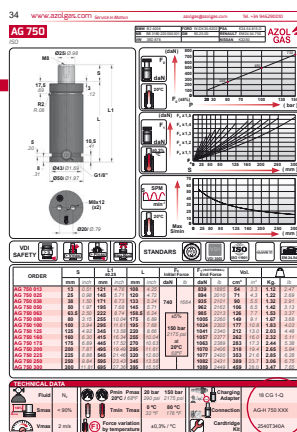
Hosed Systems

AZOL 
GAS

NOT TO BE HOSED



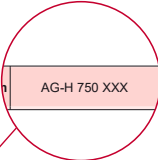
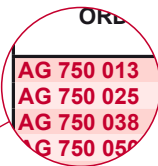
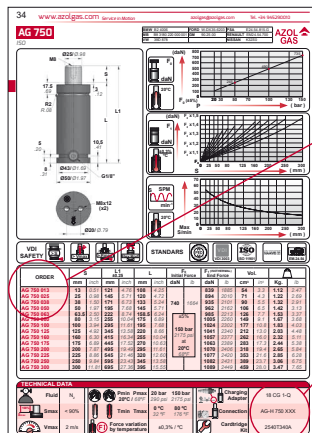
TO BE HOSED



Most of gas springs can be used as hosed, but some of them cannot be hosed.

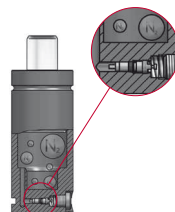
On each catalogue sheet (lower right side) can be checked if gas springs are able to be used as hoses (e.g. AG-H 750) or not (e.g. X).

TO BE HOSED



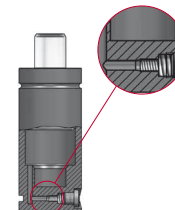
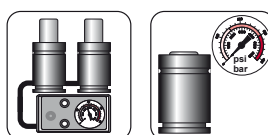
FOR SELF-CONTAINED USE

AG 750 050



FOR HOSED USE

AG-H 750 050

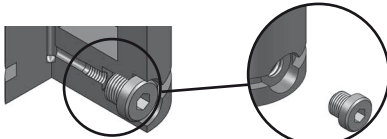
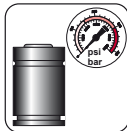
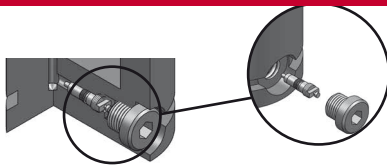


The gas springs able to be hosed may be ordered as self-contained use (if nothing is specified) or as hosed use (just by adding -H to the gas spring standard model).

- for a self-contained use (when nothing is specified) are supplied charged to the initial pressure.
- for a hosed use (when -H is added to standard model) are supplied discharged and without the filling valve.

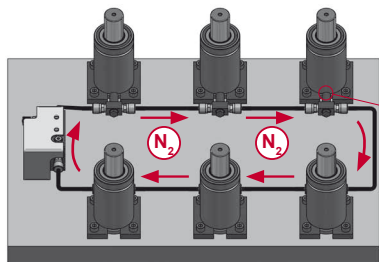
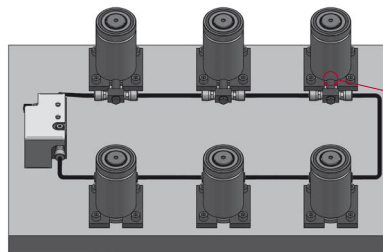
SELF-CONTAINED OR HOSED GAS SPRINGS

CODE					
		bar	psi	daN	daN
AG 750 050		150	2175	740	1100
AG-H 750 050		0	0	---	---



	ENG Self-contained gas spring	Gas spring delivered charged (with filling valve)
	DEU Autonome Gasdruckfeder	Befüllte Gasdruckfeder (mit Ventil)
	FRA Ressort à gaz autonome	Ressort à gaz fourni chargé (avec valve de charge)
	ITA Cilindro ad azoto autonomo	Cilindro fornito carico (con valvola di carico)
	ESP Cilindro de gas autónomo	Cilindro de gas suministrado cargado (con válvula de carga)
	POR Cilindro de gas autónomo	Cilindro de gás fornecido carregado (com válvula de carga)

	ENG Ready to be hoses	Gas spring delivered unfilled (without filling valve)
	DEU Fertig zum Verschlauchen	Drucklose Gasdruckfeder (ohne Ventil)
	FRA Prêt à être relié	Ressort à gaz fourni non chargé (sans valve de charge)
	ITA Pronto per essere collegato	Cilindro fornito scarico (senza valvola di carico)
	ESP Preparado para conexonar	Cilindro de gas suministrado descargado (sin válvula de carga)
	POR Pronto a ser interligado	Cilindro de gás fornecido descarregado (sem válvula de carga)

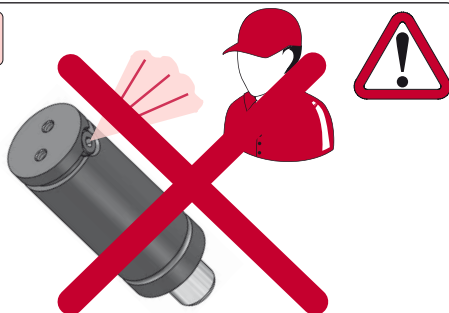


When the pressure pushes the filling valve it opens and let the flow of gas, but when there is no pressure pushing the filling valve, it keep closed and do not allow the exit of gas.

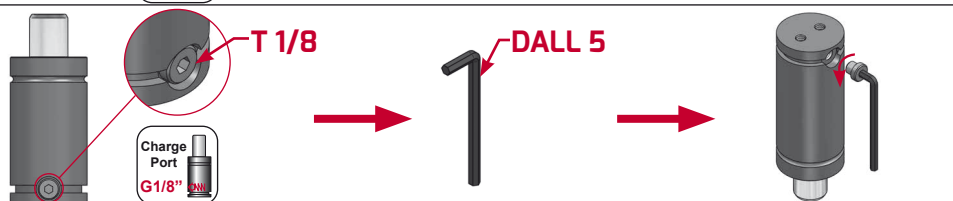
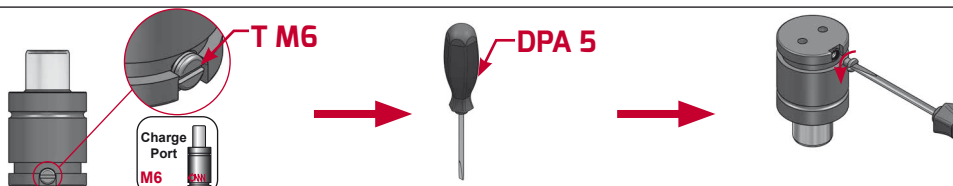
Warning: if the filling valve is installed into the gas springs, the gas springs are not linked each other into a circuit and cannot be charged through the control panel, it is necessary to remove the filling valve from the gas springs in order to keep N₂ pressure through the circuit.

SELF-CONTAINED AND HOSED*Hosed Systems***AZOL
GAS** **1**

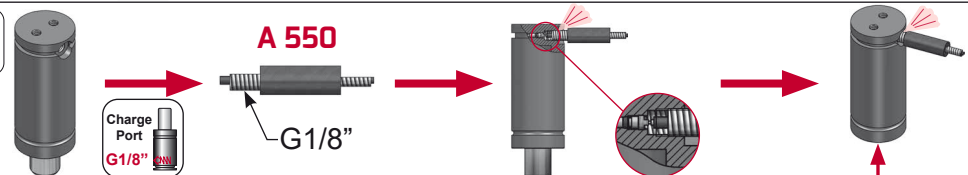
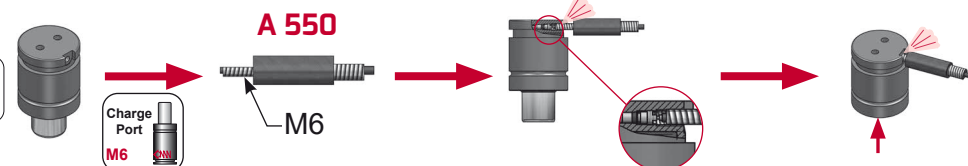
Gas spring, from self-contained to hosed system.

2

Before discharging a gas spring point the gas flow away from operator or anybody else.

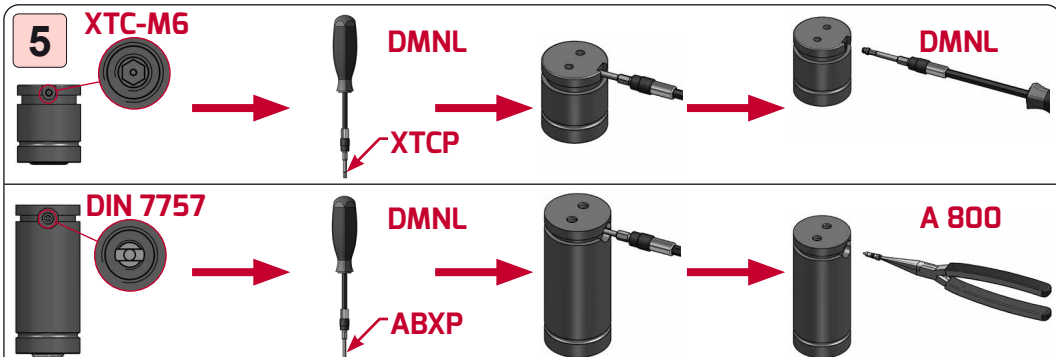
3

Check the type of plug and use the corresponding tool to unscrew it.

4

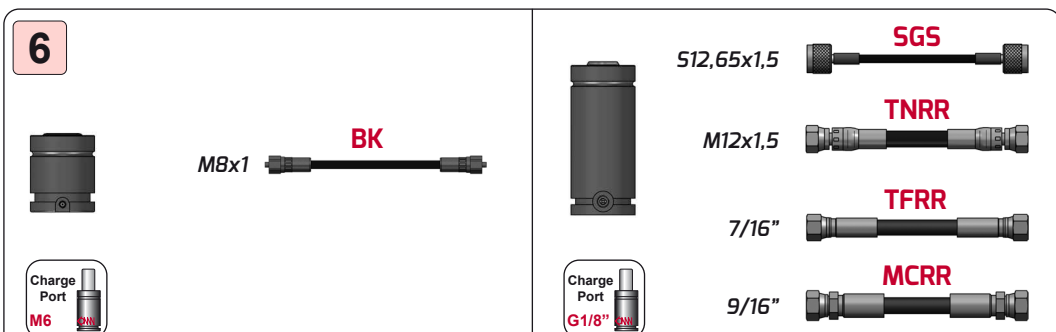
Thread the draining tool to the filling port thread and turn it slowly in order to get it fully drained.

Verify that the cylinder is completely unloaded, if so it should be possible to insert the rod by hand and stay in this position.



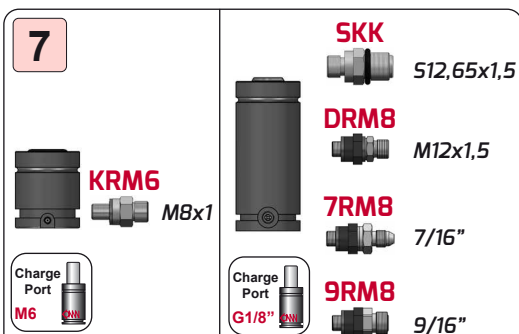
Check the type of the filling valve and unscrew it by using the tool DMNL with the corresponding adapter (XTCP for XTC-M6, and ABXP for DIN 7757).

Remove the valve XTC-M6 by using the tool DMNL and the valve DIN 7757 by using the tool A 800.

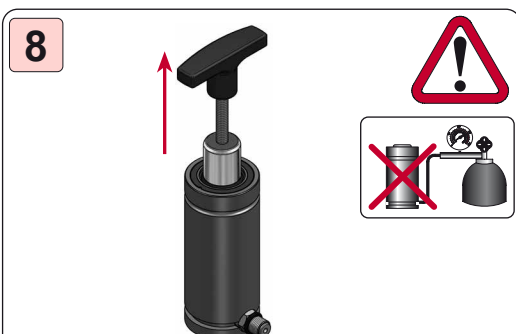


Make the right choice of the hosed system according to the gas spring and application:

- use hosed systems M8x1 for M6 filling port gas springs
- use hosed systems • S12,65x1,5 • M12x15 • 7/16" • 9/16" for G1/8" filling port gas springs

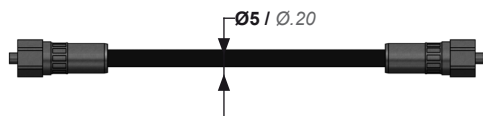
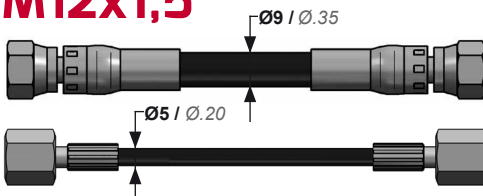
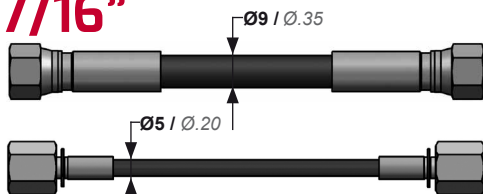
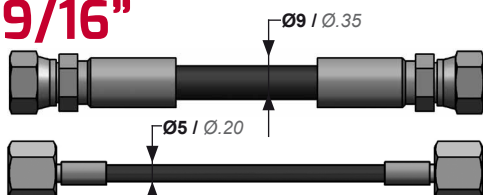


Make the right choice of adapter corresponding to each hosed system.



Pull up completely the piston rod by using the corresponding LM tool, never use gas.

The gas spring is ready to be hosed.

TYPES OF HOSED SYSTEMS*Hosed Systems***AZOL
GAS** **M8x1****BK****512,65x1,5****SGS / RGS / PGS / RGR / PGP****M12x1,5****TNRR / TNRL / TNLL / TNRC / TNLC / HJRR / HJRL / HJLL****7/16"****TFRR / TFRL / TFL / SMRR****9/16"****MCRR / MCRL / MCLL / GTRR / GTRL / GTLL**

TYPES OF HOSED SYSTEMS

Hosed Systems

M8x1

Specially suited to be used with M6 filling port gas springs.

The most compact hosed system.

Charge Port
M6



S12,65x1,5

Most popular use for G1/8" filling port gas springs and automobile: EM.24.54.700, W-DX35-72, 90.25, SMS DNH 3217n

A versatile and compact hosed system that allows easy inter-link fitting and vibration-proof couplings.

Charge Port
G1/8"



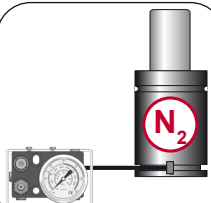
EM.24.54

M12x1,5

Intended use for high volume gas springs with G1/8" filling port, or high gas flow required (compensation tanks).

Widest space required.

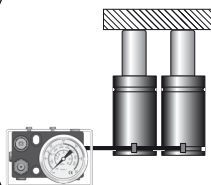
Charge Port
G1/8"



7/16"

Only to be used for standard applications on G1/8" filling port gas springs, in case of high vibration applications use hosed system 9/16".

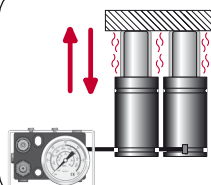
Charge Port
G1/8"



9/16"

Recommended use for G1/8" filling port gas springs in high vibration applications.

Charge Port
G1/8"



TYPES OF HOSED SYSTEMS

Hosed Systems

AZOL
GAS

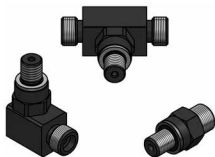
Filling Port



M6



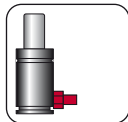
KR / KC / KT / _ _BK
(M8x1)



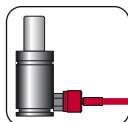
SKK / CF
(S12,65x1,5)



Adapters



Hoses



Ø9

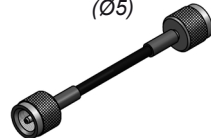
Ø5

BK

(M8x1) (Ø5)



SGS / RGS / PGS
RGR / PGP
(S12,65x1,5 Minimes) (Ø5)

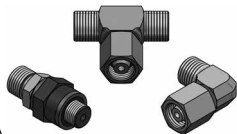


TYPES OF HOSED SYSTEMS

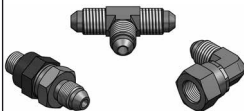
Hosed Systems

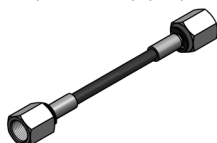
G1/8" GAS SPRINGS LINKABLE	
AG 500	CTN 750 - 5000
AG 750 - 10000	KZ 750 - 6600
CD 700 - 18500	KT 1000 - 9500
CM 1000 - 10000	CW 4200 - 20000
GN 750 - 7500	CWC 750 - 2400
FD 500 - 5000 V1	CP-KC 1000 V1 - 2000 V2
CK 750 V2 - 4000 V1	CS-KC 1000 V2 - 18300 V1

G1/8"

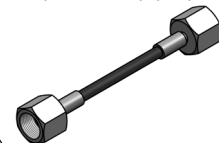
D--D
DM--
 (M12x1,5)

TNRR / TNRL / TNLL
TNRC / TNCC / TNLG
 (M12x1,5) (Ø9)

HJRR / HJRL / HJLL
 (M12x1,5) (Ø5)

7---
 (7/16"UNF)

TFRR / TFRL / TFLL
 (7/16"UNF) (Ø9)

SMRR
 (7/16"UNF) (Ø5)

9---
 (9/16"UNF)

MCRR / MCRL / MCLL
 (9/16"UNF) (Ø9)

GTRR / GTRL / GTLL
 (9/16"UNF) (Ø5)


TYPES OF HOSED SYSTEMS

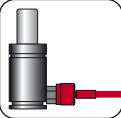
Hosed Systems

AZOL GAS

	Filling Port		Adapters																
M6	<table><tr><th colspan="2">M6 GAS SPRINGS LINKABLE</th></tr><tr><td>AG 250</td><td>CK 500</td></tr><tr><td>CD 300 V1 - 500 V1</td><td>CT 500 - 5000</td></tr><tr><td>CM 300 - 600 V1</td><td>KZ 350 - 500</td></tr><tr><td>FD 300</td><td>CW 350 - 2400 V1</td></tr></table>	M6 GAS SPRINGS LINKABLE		AG 250	CK 500	CD 300 V1 - 500 V1	CT 500 - 5000	CM 300 - 600 V1	KZ 350 - 500	FD 300	CW 350 - 2400 V1	M8x1	KRM6 TE BK 90 BK						
M6 GAS SPRINGS LINKABLE																			
AG 250	CK 500																		
CD 300 V1 - 500 V1	CT 500 - 5000																		
CM 300 - 600 V1	KZ 350 - 500																		
FD 300	CW 350 - 2400 V1																		
G1/8"	<table><tr><th colspan="2">G1/8" GAS SPRINGS LINKABLE</th></tr><tr><td>AG 500</td><td>CTN 750 - 5000</td></tr><tr><td>AG 750 - 10000</td><td>KZ 750 - 6600</td></tr><tr><td>CD 700 - 18500</td><td>KT 1000 - 9500</td></tr><tr><td>CM 1000 -10000</td><td>CW 4200 - 20000</td></tr><tr><td>GN 750 - 7500</td><td>CWC 750 - 2400</td></tr><tr><td>FD 500 - 5000 V1</td><td>CP-KC 1000 V1 - 2000 V2</td></tr><tr><td>CK 750 V2 - 4000 V1</td><td>CS-KC 1000 V2 - 18300 V1</td></tr></table>	G1/8" GAS SPRINGS LINKABLE		AG 500	CTN 750 - 5000	AG 750 - 10000	KZ 750 - 6600	CD 700 - 18500	KT 1000 - 9500	CM 1000 -10000	CW 4200 - 20000	GN 750 - 7500	CWC 750 - 2400	FD 500 - 5000 V1	CP-KC 1000 V1 - 2000 V2	CK 750 V2 - 4000 V1	CS-KC 1000 V2 - 18300 V1	S12,65x1,5 M12x1,5 7/16" 9/16"	SKK CF 02 CF 01 DRM8 DTFD DCFD 7RM8 7EM8 7CM8 9RM8 9EM8 9CM8
G1/8" GAS SPRINGS LINKABLE																			
AG 500	CTN 750 - 5000																		
AG 750 - 10000	KZ 750 - 6600																		
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FD 500 - 5000 V1	CP-KC 1000 V1 - 2000 V2																		
CK 750 V2 - 4000 V1	CS-KC 1000 V2 - 18300 V1																		

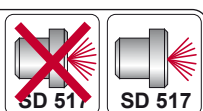
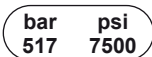
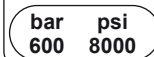
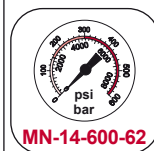
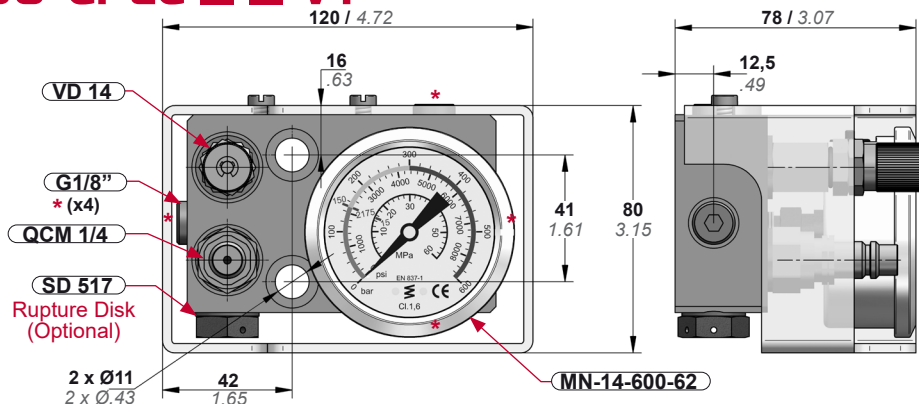
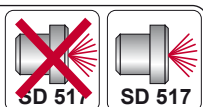
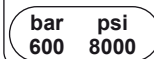
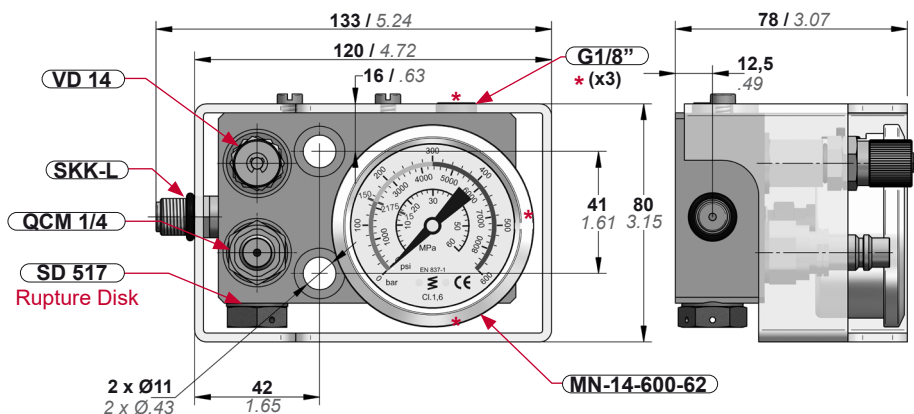
TYPES OF HOSED SYSTEMS

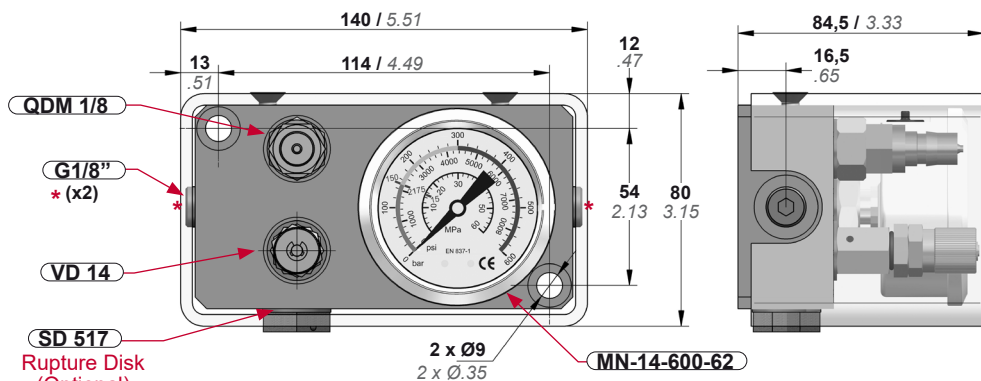
Hosed Systems

 Hoses	 Control Panels
BK 	600-CPM6 
SGS  RGR  RGS  PGS  PGP 	600-CPLC  600-CPFI  600-CPGM  600-CPTO 
HJRR  HJRL  HJLL  TNRR  TNRL  TNLL 	600-CPLC  600-CPFI  600-CPGM 
SMRR  TFRR  TFRL  TFLL 	600-CPLC  600-CPFI  600-CPGM 
GTRR  GTRL  GTLL  MCRR  MCRL  MCLL 	600-CPLC  600-CPFI  600-CPGM  600-CPFO 

CONTROL PANELS

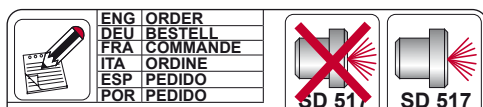
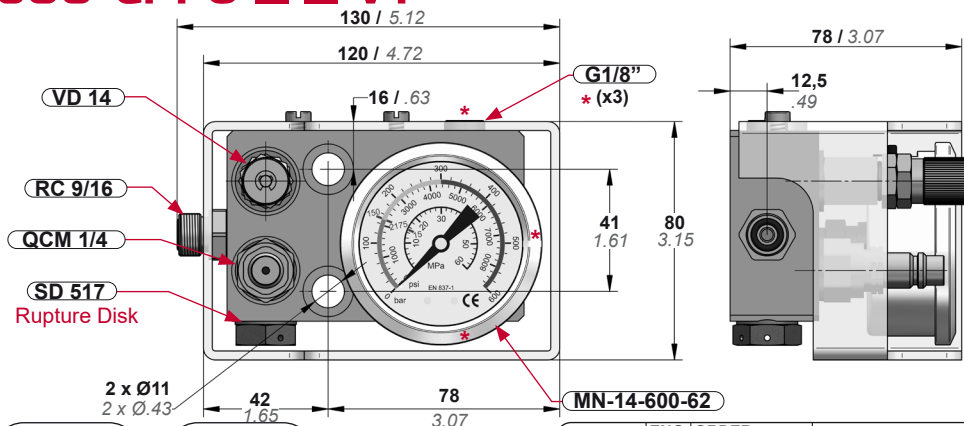
Hosed Systems

**AZOL
GAS****600-CPLC _ _ V1****600-CPLC 01 V1****600-CPLC 02 V1****600-CPTO _ _ V1****TOYOTA SMS DHN 3211n****600-CPTO 01 V1**

600-CPFI _ _**FIAT A0.14.01****MN-14-600-62****SD 517**

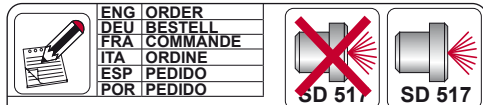
bar	psi
600	8000

bar	psi
517	7500

**600-CPFI 01****600-CPFI 02****600-CPFO _ _ V1****FORD W-DX-35-72****MN-14-600-62****SD 517**

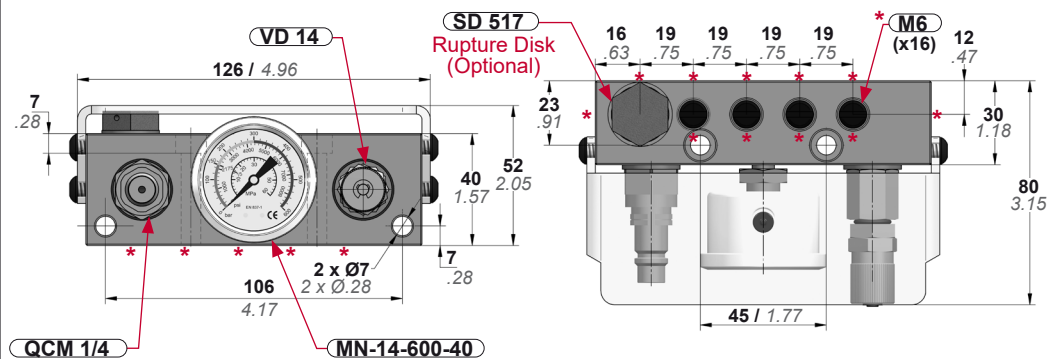
bar	psi
600	8000

bar	psi
517	7500

**600-CPFO 01 V1**

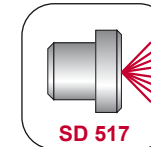
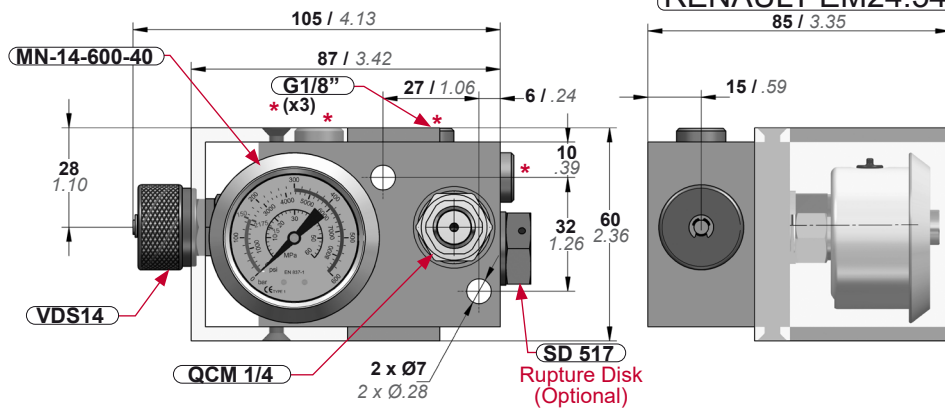
CONTROL PANELS

Hosed Systems

**AZOL
GAS****600-CPM6 _ _**

bar psi
600 8000

bar psi
517 7500

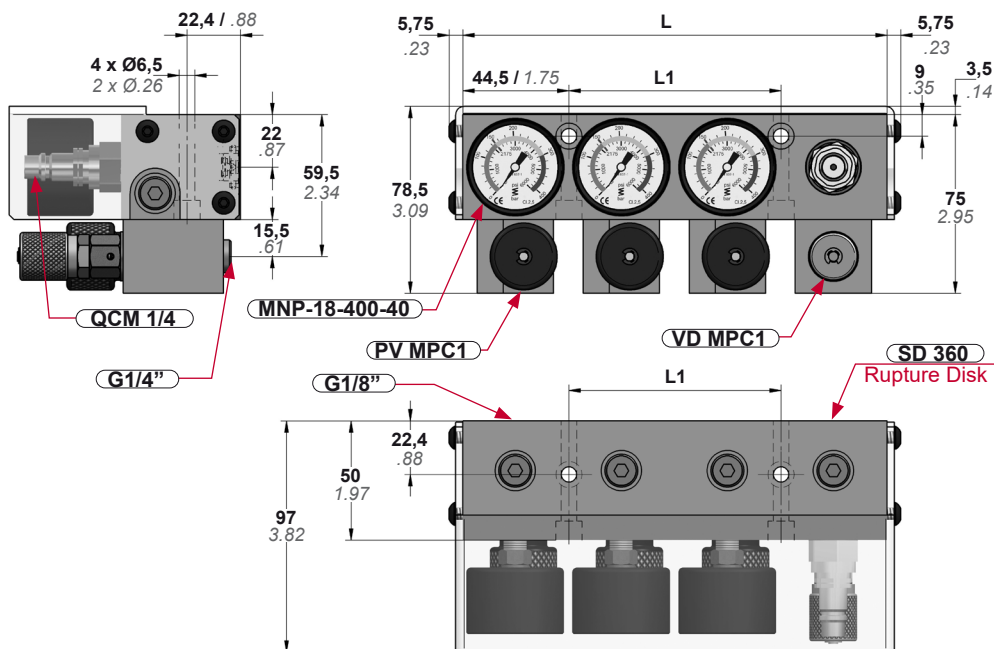
**600 CPM6 01****600 CPM6 03****600-CPGM _ _ V1****GM 90.25****RENAULT EM24.54.700**

bar psi
600 8000

bar psi
517 7500

**600-CPGM 03 V1****600-CPGM 05 V1**

400-CPFG _ 01



ORDER	Qty. testing units	L (mm)	L (inch)	L1 (mm)	L1 (inch)
400-CPFG2 01	2	133.5	5.26	44.5	1.75
400-CPFG3 01	3	178	7.01	89	3.50
400-CPFG4 01	4	222.5	8.76	133.5	5.26
400-CPFG5 01	5	267	10.51	178	7.01
400-CPFG6 01	6	311.5	12.26	222.5	8.76
400-CPFG8 01	8	400.5	15.77	311.5	12.26
400-CPFG10 01	10	489.5	19.27	400.5	15.77

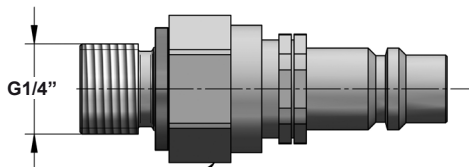

bar psi
400 6000

bar psi
360 5220

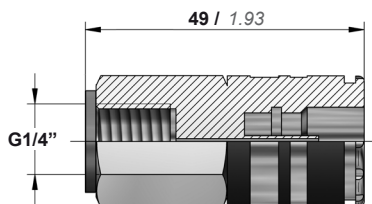
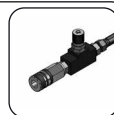

400-CPFG2 01

CONTROL PANELS

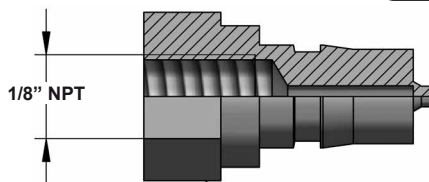
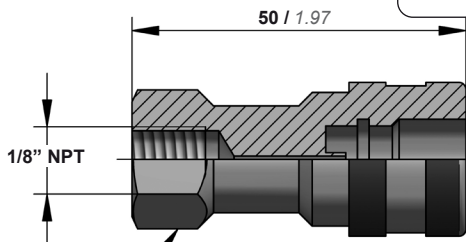
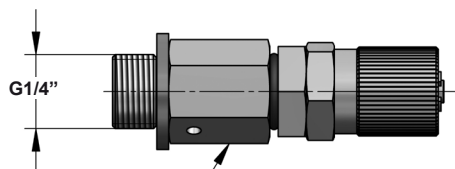
Hosed Systems

**AZOL
GAS** **QCM 1/4**A/F 19
A/F .75**CONTROL PANEL**

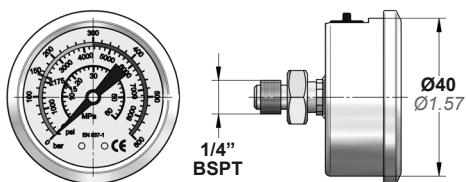
600-CPLC	600-CPM6
600-CPTO	600-CPGM
600-CPFO	400-CPFG

QCF 1/4A/F 19
A/F .75**CHARGING UNIT**

EC 37
EC 38
EC 39

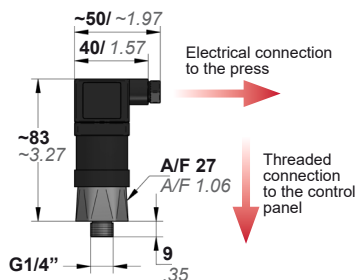
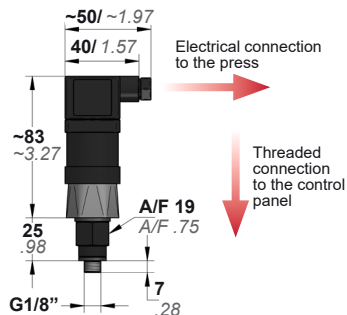
QDM 1/8A/F 17
A/F .67**CONTROL PANEL****600-CPFI****QDF 1/8**A/F 18
A/F .71Only to be used for
control panel 600-CPFI**VD 14**A/F 16
A/F .63**QDF 1/8-Q****QCM 1/4****QDF 1/8**Only to be used for
control panel 600-CPFI

MN-14-600-40



PRESSURE SWITCH

Hosed Systems

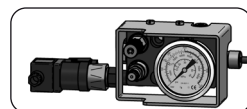
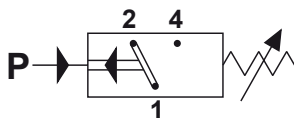
**AZOL
GAS****SPS 1/4****SPS 1/8****HOW TO ORDER****SPS 1/4****HOW TO ORDER****SPS 1/8****TECHNICAL DATA**

Range:	50 - 200 bar	725 - 2900 psi
Tolerance:	±5 bar a 20 °C	±5 bar a 20 °C
Thread:	G1/4" y G1/8"	G1/4" y G1/8"
Tension:	Max. 250 V	Max. 250 V
Safety over-pressure:	300 bar	4351 psi
Working temperature:	-25 °C to +50 °C	-25 °C to +50 °C

APPLICATIONS

A pressure switch is a simpler pressure sensor that does not provide a continuous output (only an on/off device). One preset pressure value can be fixed into the pressure switch, in the event of the pressure of the circuit reach the preset mentioned value, the device changes the status of the electrical circuit (opened / closed).

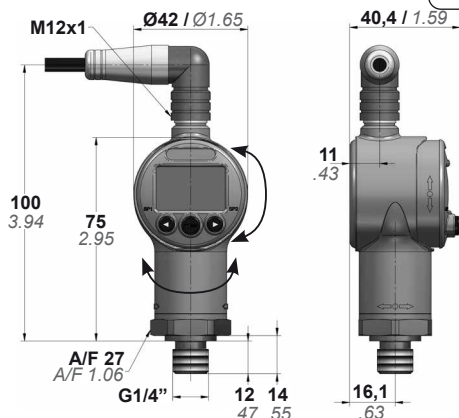
The setting of the setpoint pressure is analogical, by turning a screw in its internal part.

**WARNING**

The electronic pressure switch must be connected by a qualified electrician in accordance to the regulations of the country where they will be used.

The local and international regulations for the electric equipment installation must be observed.

EDS 400 1/4



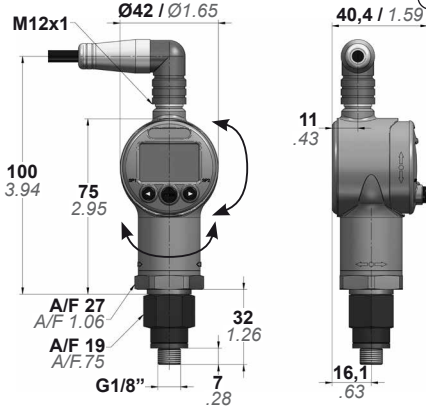
HOW TO ORDER



EDS 400 1/4



EDS 400 1/8



HOW TO ORDER



EDS 400 1/8



TECHNICAL DATA

Mechanical connection:	G1/4" - G1/8"	G1/4" - G1/8"
Measuring range:	0 - 400 bar	0 - 5801 psi
Max. pressure:	800 bar	11603 psi
Burst pressure:	2000 bar	29007 psi
Operating temperature:	-25 °C to +80 °C.	-25 °C to +80 °C.
Torque:	20 Nm	20 Nm
Protection class (IEC 60529)	IP67	IP67
Weight:	120 g	0.265 lb

Switching current:	max. 1.2 A
Supply voltage:	9 - 35 VDC
Electrical connection:	M12x1 (4 pole)
Output: (2 switching outputs + analog output)	2 PNP Pin 2,4

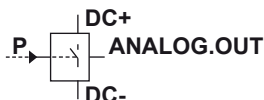
APPLICATIONS

A pressure transducer is a more versatile sensor that provides a continuous output, connected to a controller, which monitors and performs actions based upon the pressure within the system.

The transducer measures the pressure of a gas spring or a connected system and converts it into an analog or digital signal that can be collected and interpreted by electronic systems, with the ultimate goal of having a record of the pressure values that are occurring in the system.

The EDS 400 combines both functions:

- Pressure switch: it has 2 configurable setpoint pressures, which can change the status of an electrical circuit according to the preset pressure value.
- Transducer: it has an analog output of the pressure measurement, which can be displayed, recorded or analyzed by electronic systems (PLCs, Computers).



WARNING

The electronic pressure switch must be connected by a qualified electrician in accordance to the regulations of the country where they will be used.

The local and international regulations for the electric equipment installation must be observed.

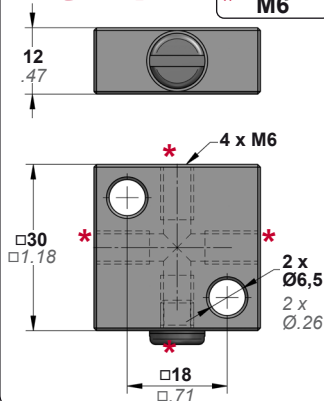
DISTRIBUTION BLOCKS

Hosed Systems

AZOL
GAS

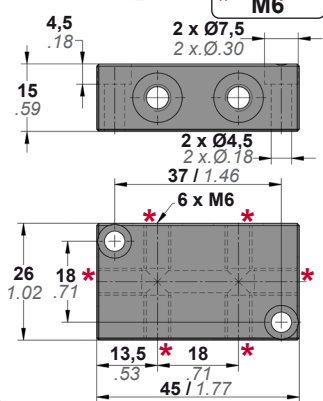
PLC M6

4 Ports
M6



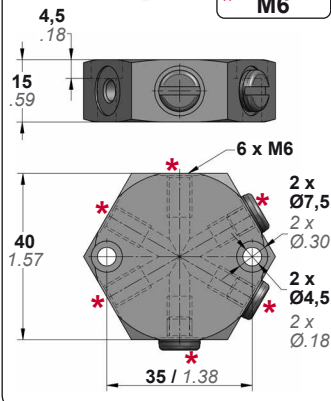
PLR M6

6 Ports
M6



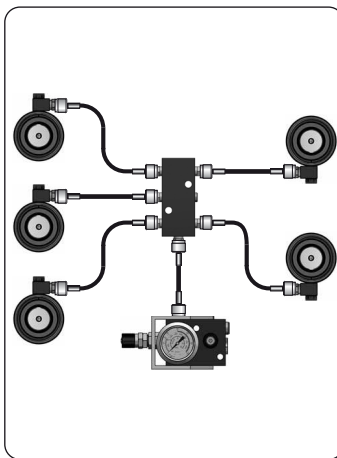
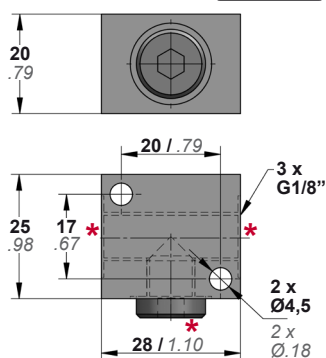
PLH M6

6 Ports
M6



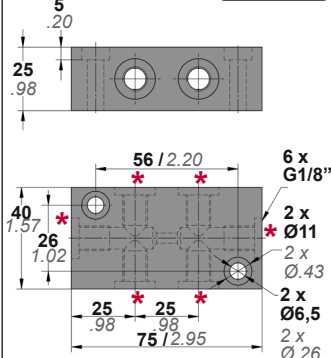
PLD 2

3 Ports
G1/8"



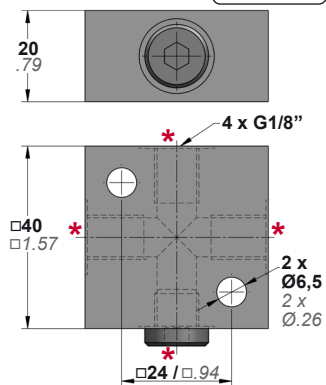
PLF 4

6 Ports
G1/8"



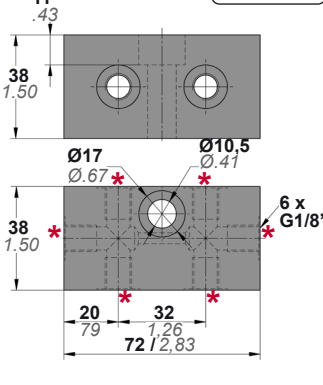
PLF 2

4 Ports
G1/8"



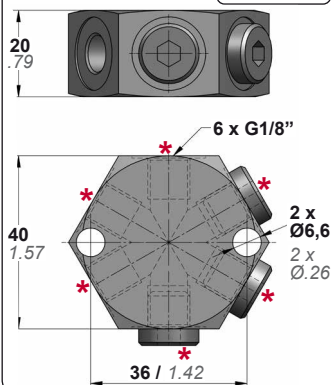
PLD 4

6 Ports
G1/8"



PLH 1/8

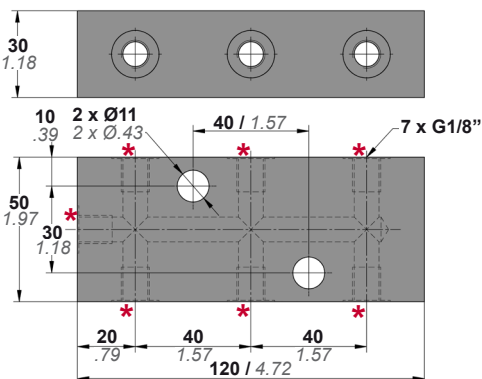
6 Ports
G1/8"



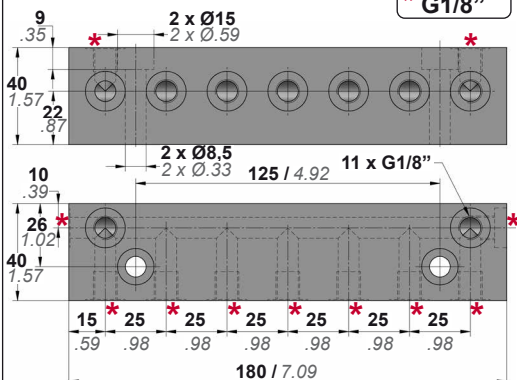
DISTRIBUTION BLOCKS

Hosed Systems

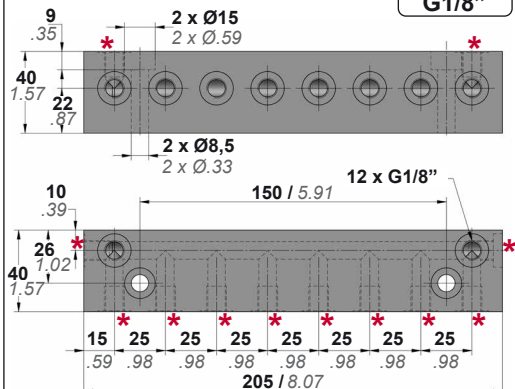
PLD 6

7 Ports
*** G1/8"**


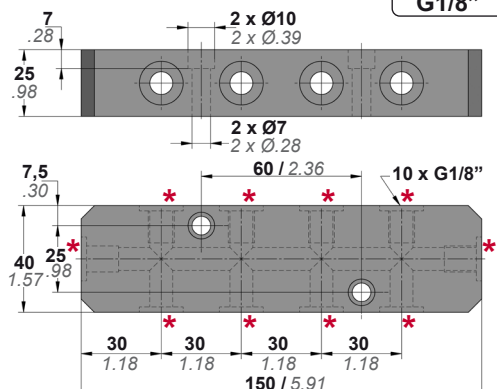
PLD 7

11 Ports
*** G1/8"**


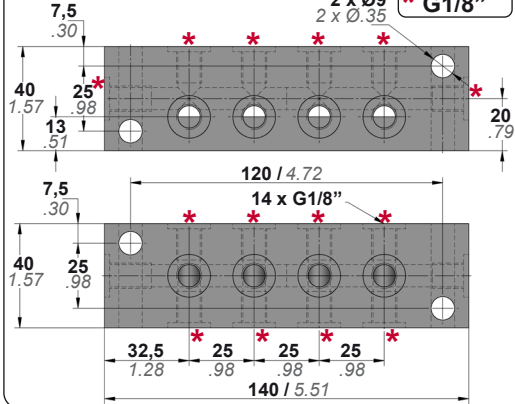
PLD 8

12 Ports
*** G1/8"**


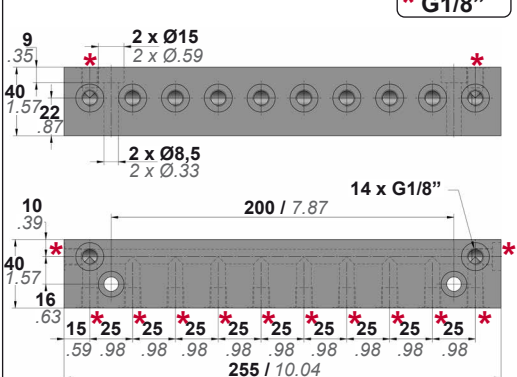
PLF 8

10 Ports
*** G1/8"**


PLK 8

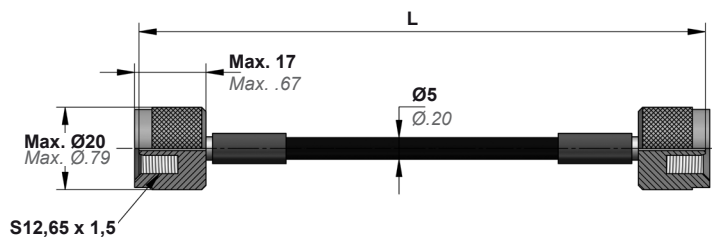
14 Ports
*** G1/8"**


PLD 10

14 Ports
*** G1/8"**


G1/8" MINIMESS (Ø5)

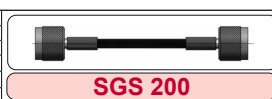
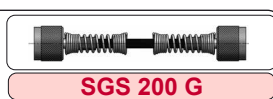
Hosed Systems

**AZOL
GAS****SGS**

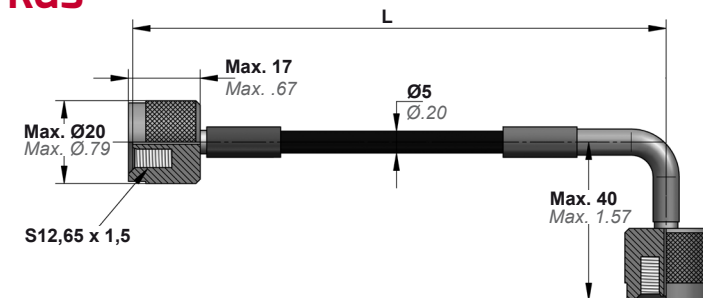
ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
SGS 200	200	7.87
SGS 300	300	11.81
SGS 400	400	15.75
SGS 500	500	19.69
SGS 630	630	24.80
SGS 800	800	31.50
SGS 1000	1000	39.37
SGS 1200	1200	47.24
SGS 1250	1250	49.21
SGS 1500	1500	59.06
SGS 2000	2000	78.74
SGS 2500	2500	98.43
SGS 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**SGS 200****SGS 200 G**

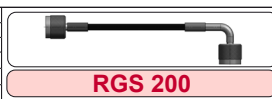
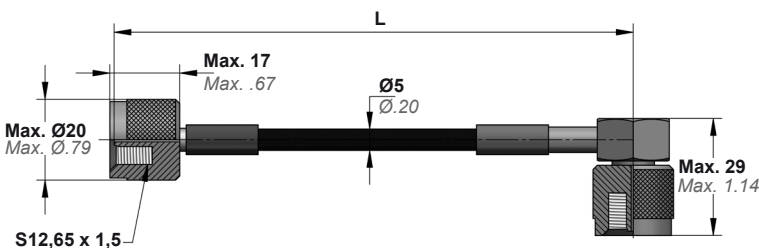
EM.24.54.700
90.25
W-DX35-72
SMS DNH 3217n

RGS

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
RGS 200	200	7.87
RGS 300	300	11.81
RGS 400	400	15.75
RGS 500	500	19.69
RGS 630	630	24.80
RGS 800	800	31.50
RGS 1000	1000	39.37
RGS 1200	1200	47.24
RGS 1250	1250	49.21
RGS 1500	1500	59.06
RGS 2000	2000	78.74
RGS 2500	2500	98.43
RGS 3000	3000	118.11



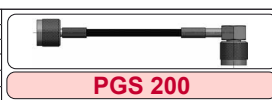
ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**RGS 200****RGS 200 G****PGS**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
PGS 200	200	7.87
PGS 300	300	11.81
PGS 400	400	15.75
PGS 500	500	19.69
PGS 630	630	24.80
PGS 800	800	31.50
PGS 1000	1000	39.37
PGS 1200	1200	47.24
PGS 1250	1250	49.21
PGS 1500	1500	59.06
PGS 2000	2000	78.74
PGS 2500	2500	98.43
PGS 3000	3000	118.11

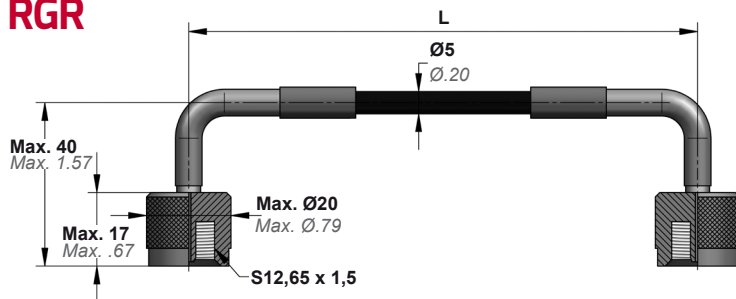


ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**PGS 200****PGS 200 G**

EM.24.54.700
90.25
W-DX35-72
SMS DNH 3217n

RGR



ORDER	L ⁺⁵ ₋₀ (mm)	L ^{+0.20} ₋₀ (inch)
RGR 200	200	7.87
RGR 300	300	11.81
RGR 400	400	15.75
RGR 500	500	19.69
RGR 630	630	24.80
RGR 800	800	31.50
RGR 1000	1000	39.37
RGR 1200	1200	47.24
RGR 1250	1250	49.21
RGR 1500	1500	59.06
RGR 2000	2000	78.74
RGR 2500	2500	98.43
RGR 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

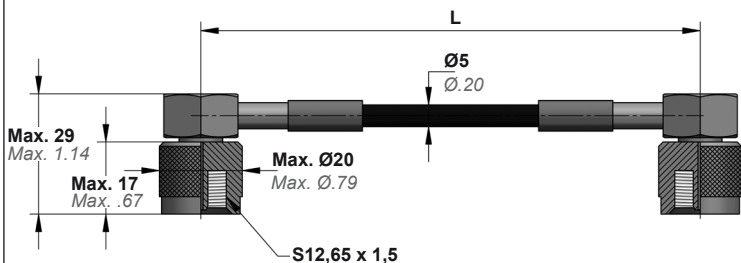


RGR 200



RGR 200 G

PGP



ORDER	L ⁺⁵ ₋₀ (mm)	L ^{+0.20} ₋₀ (inch)
PGP 200	200	7.87
PGP 300	300	11.81
PGP 400	400	15.75
PGP 500	500	19.69
PGP 630	630	24.80
PGP 800	800	31.50
PGP 1000	1000	39.37
PGP 1200	1200	47.24
PGP 1250	1250	49.21
PGP 1500	1500	59.06
PGP 2000	2000	78.74
PGP 2500	2500	98.43
PGP 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO



PGP 200



PGP 200 G

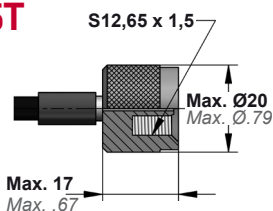
EM.24.54.700

90.25

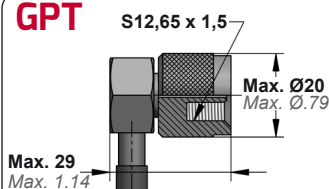
W-DX35-72

SMS DNH 3217n

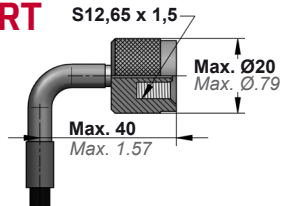
GST



GPT



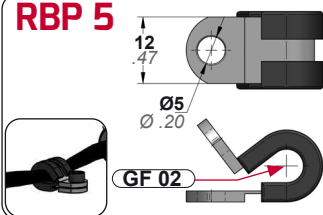
GRT



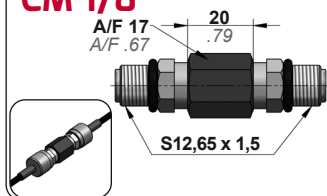
GF 02



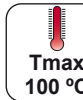
RBP 5



CM 1/8



Pmax
630 bar



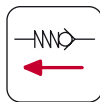
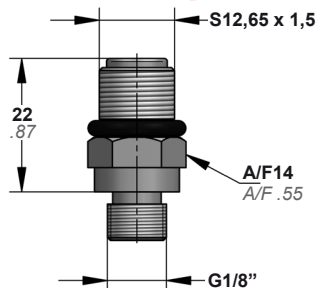
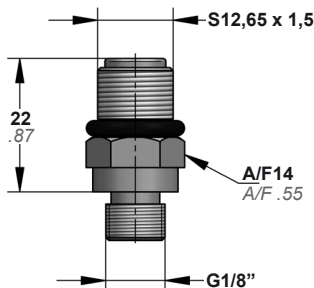
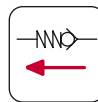
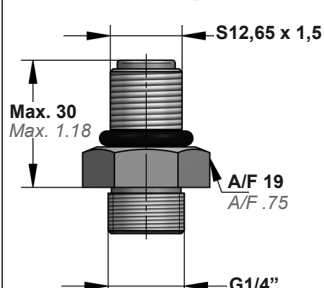
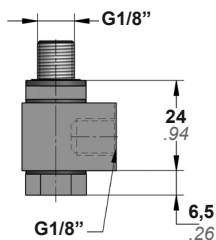
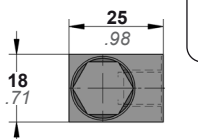
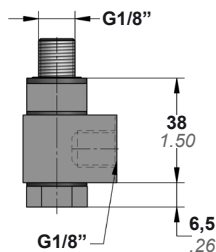
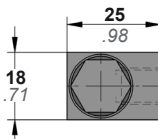
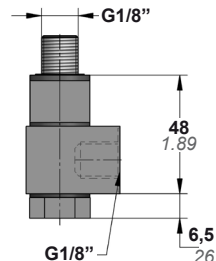
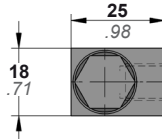
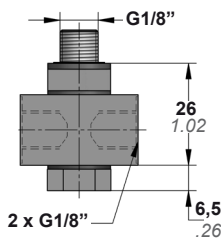
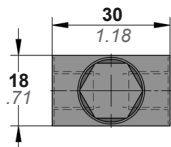
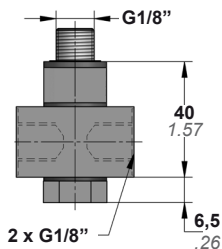
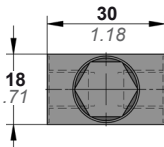
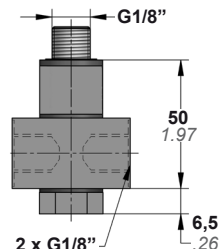
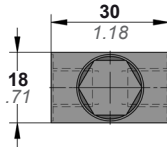
Tmax
100 °C

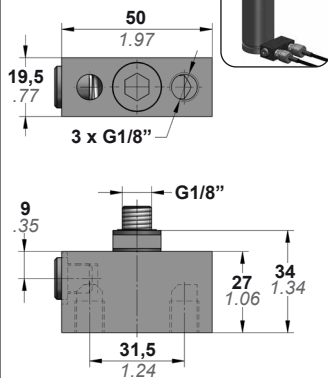
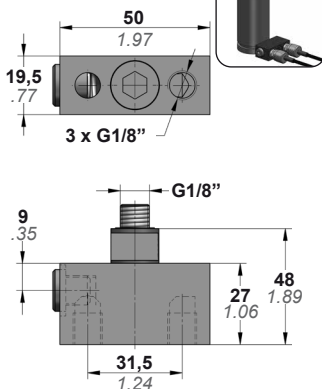
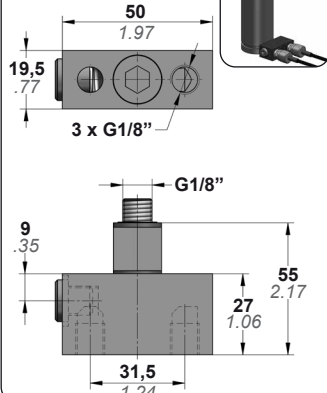
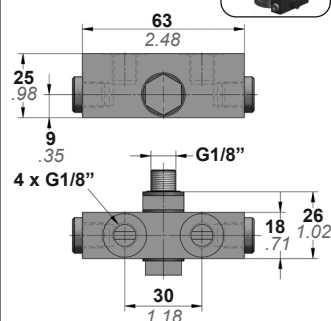
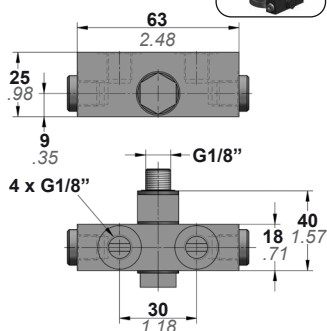
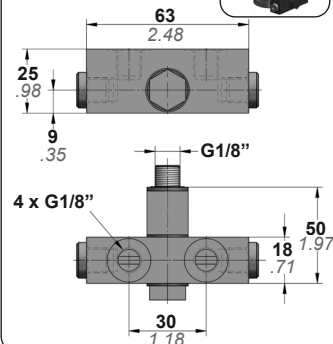
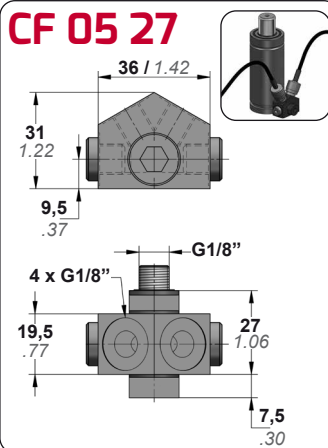
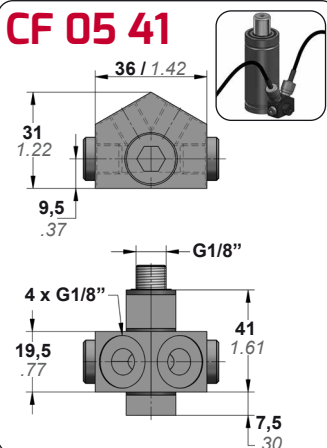
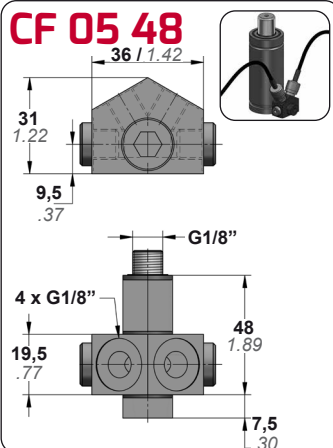


Rmin
20 mm

G1/8" MINIMESS (05)

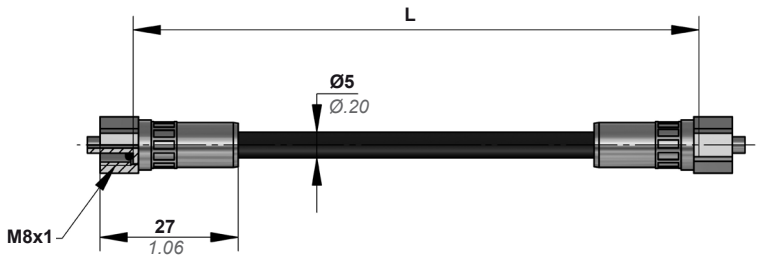
Hosed Systems

AZOL
GAS**SKK 12R 1/8****SKK L****SKK 12R 1/4****CF 01 24****CF 01 38****CF 01 48****CF 02 26****CF 02 40****CF 02 50**

CF 03 34**CF 03 48****CF 03 55****CF 04 26****CF 04 40****CF 04 50****CF 05 27****CF 05 41****CF 05 48**

M8 x 1 (Ø5)

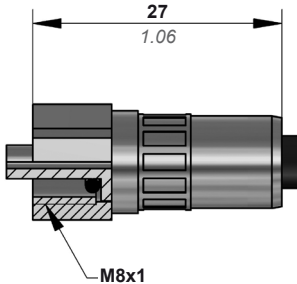
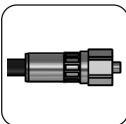
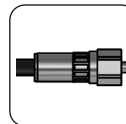
Hosed Systems

AZOL
GAS**BK**

ORDER	L ⁺⁵ ₋₀ (mm)	L ^{+0.20} ₋₀ (inch)
BK 200	200	7.87
BK 300	300	11.81
BK 400	400	15.75
BK 500	500	19.69
BK 630	630	24.80
BK 800	800	31.50
BK 1000	1000	39.37
BK 1200	1200	47.24
BK 1250	1250	49.21
BK 1500	1500	59.06
BK 2000	2000	78.74
BK 2500	2500	98.43
BK 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**BK 200****BK 200 G****BKRT****GF 02**

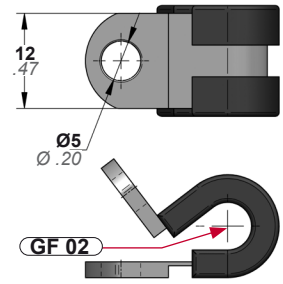
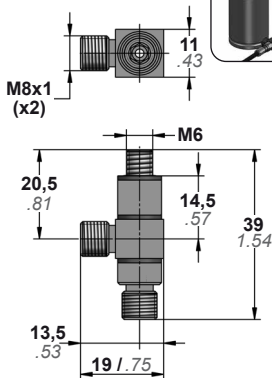
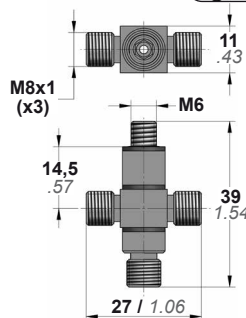
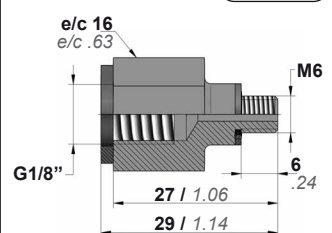
Pmax
400 bar

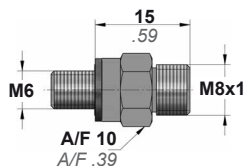
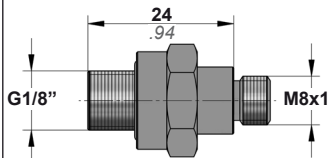
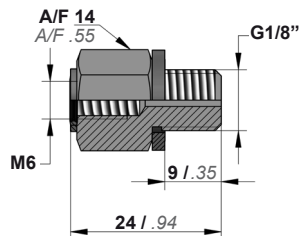
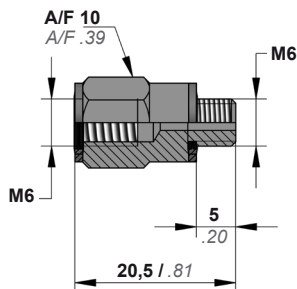
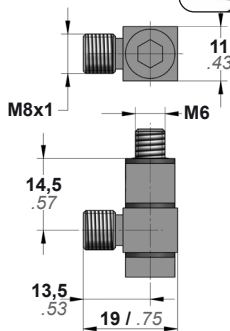
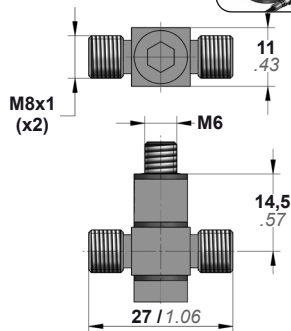
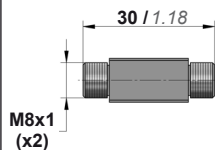
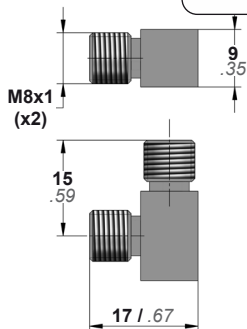
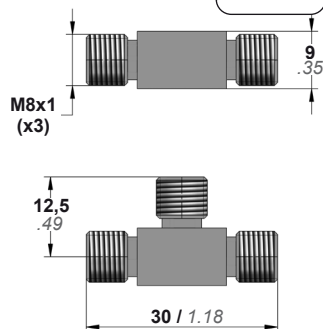
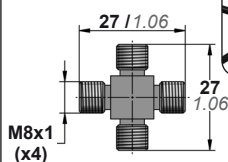


Tmax
100 °C



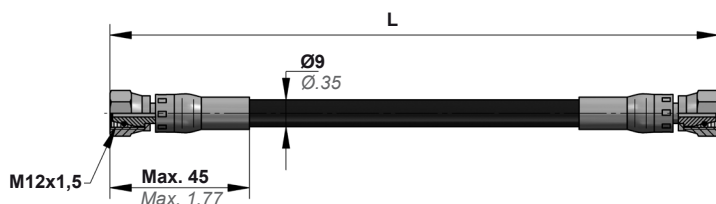
Rmin
20 mm

RBP 5**90 R BK1****TE R BK1****06 GA 9**

KRM6

KRM8

18 MS 1

06 MS 3

90 BK1

TE BK1

KRMK1

KCMK1

KTMK1

KXMK


M12 x 1,5 (Ø9)

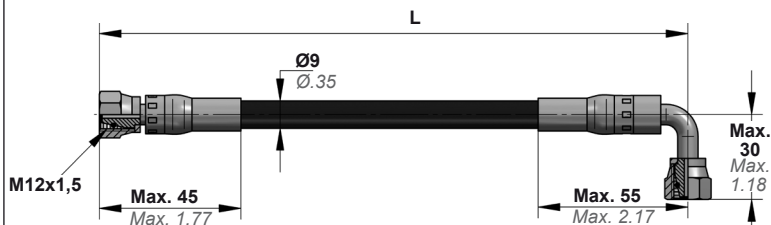
Hosed Systems

**AZOL
GAS****TNRR**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
TNRR 200	200	7.87
TNRR 300	300	11.81
TNRR 400	400	15.75
TNRR 500	500	19.69
TNRR 630	630	24.80
TNRR 800	800	31.50
TNRR 1000	1000	39.37
TNRR 1200	1200	47.24
TNRR 1250	1250	49.21
TNRR 1500	1500	59.06
TNRR 2000	2000	78.74
TNRR 2500	2500	98.43
TNRR 3000	3000	118.11



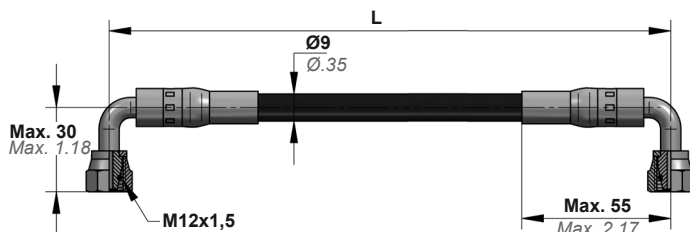
ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**TNRR 200****TNRL**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
TNRL 200	200	7.87
TNRL 300	300	11.81
TNRL 400	400	15.75
TNRL 500	500	19.69
TNRL 630	630	24.80
TNRL 800	800	31.50
TNRL 1000	1000	39.37
TNRL 1200	1200	47.24
TNRL 1250	1250	49.21
TNRL 1500	1500	59.06
TNRL 2000	2000	78.74
TNRL 2500	2500	98.43
TNRL 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**TNRL 200****TNLL**

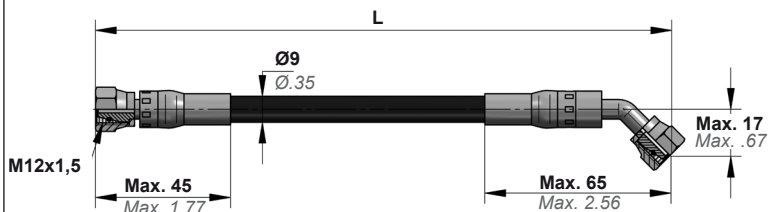
ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
TNLL 200	200	7.87
TNLL 300	300	11.81
TNLL 400	400	15.75
TNLL 500	500	19.69
TNLL 630	630	24.80
TNLL 800	800	31.50
TNLL 1000	1000	39.37
TNLL 1200	1200	47.24
TNLL 1250	1250	49.21
TNLL 1500	1500	59.06
TNLL 2000	2000	78.74
TNLL 2500	2500	98.43
TNLL 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**TNLL 200**

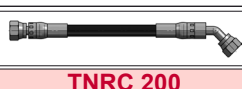
TNRC



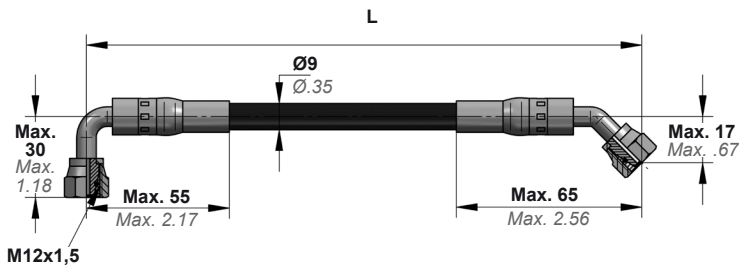
ORDER	L ⁺⁵ ₋₀ (mm)	L ^{+0.20} ₋₀ (inch)
TNRC 200	200	7.87
TNRC 300	300	11.81
TNRC 400	400	15.75
TNRC 500	500	19.69
TNRC 630	630	24.80
TNRC 800	800	31.50
TNRC 1000	1000	39.37
TNRC 1200	1200	47.24
TNRC 1250	1250	49.21
TNRC 1500	1500	59.06
TNRC 2000	2000	78.74
TNRC 2500	2500	98.43
TNRC 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO


TNRC 200

TNLC



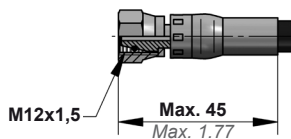
ORDER	L ⁺⁵ ₋₀ (mm)	L ^{+0.20} ₋₀ (inch)
TNLC 200	200	7.87
TNLC 300	300	11.81
TNLC 400	400	15.75
TNLC 500	500	19.69
TNLC 630	630	24.80
TNLC 800	800	31.50
TNLC 1000	1000	39.37
TNLC 1200	1200	47.24
TNLC 1250	1250	49.21
TNLC 1500	1500	59.06
TNLC 2000	2000	78.74
TNLC 2500	2500	98.43
TNLC 3000	3000	118.11



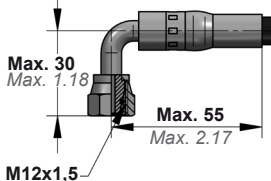
ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO


TNLC 200

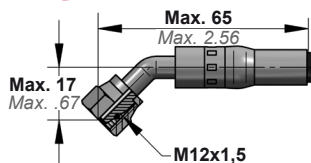
TNRT



TNLT



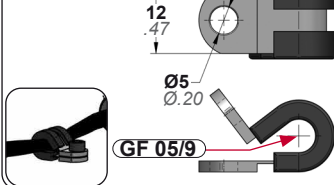
TNCT



GF 05/9



RBP 10



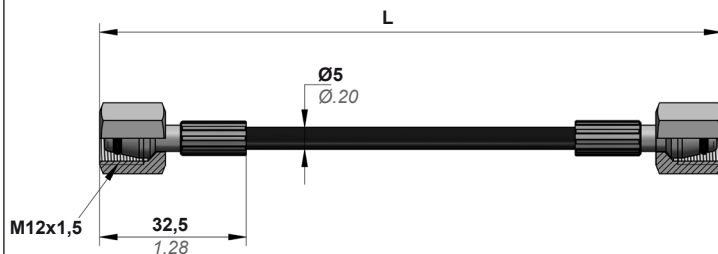
Pmax
345 bar

Tmax
100 °C

Rmin
40 mm

M12 x 1,5 (Ø5)

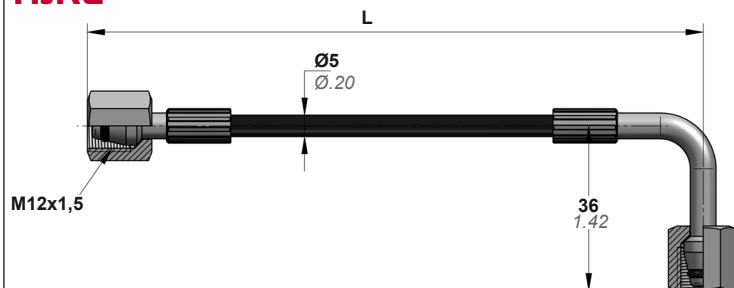
Hosed Systems

AZOL
GAS**HJRR**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
HJRR 200	200	7.87
HJRR 300	300	11.81
HJRR 400	400	15.75
HJRR 500	500	19.69
HJRR 630	630	24.80
HJRR 800	800	31.50
HJRR 1000	1000	39.37
HJRR 1200	1200	47.24
HJRR 1250	1250	49.21
HJRR 1500	1500	59.06
HJRR 2000	2000	78.74
HJRR 2500	2500	98.43
HJRR 3000	3000	118.11



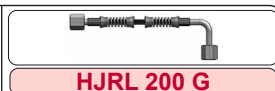
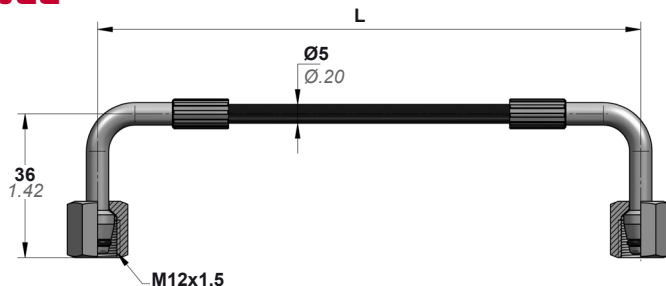
ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**HJRR 200****HJRR 200 G****HJRL**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
HJRL 200	200	7.87
HJRL 300	300	11.81
HJRL 400	400	15.75
HJRL 500	500	19.69
HJRL 630	630	24.80
HJRL 800	800	31.50
HJRL 1000	1000	39.37
HJRL 1200	1200	47.24
HJRL 1250	1250	49.21
HJRL 1500	1500	59.06
HJRL 2000	2000	78.74
HJRL 2500	2500	98.43
HJRL 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

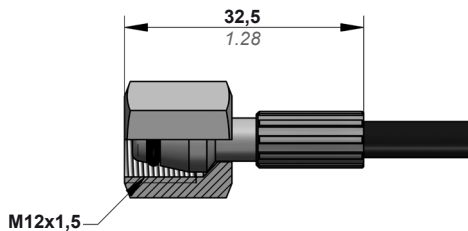
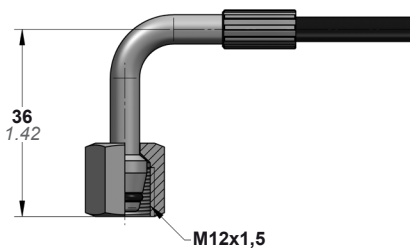
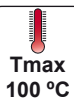
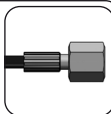
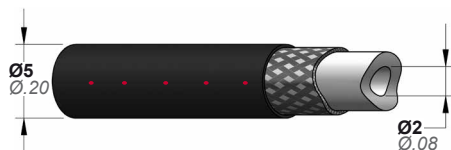
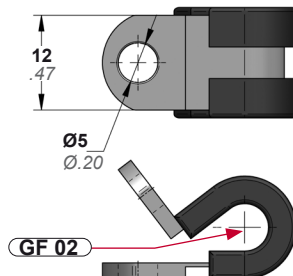
**HJRL 200****HJRL 200 G****HJLL**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
HJLL 200	200	7.87
HJLL 300	300	11.81
HJLL 400	400	15.75
HJLL 500	500	19.69
HJLL 630	630	24.80
HJLL 800	800	31.50
HJLL 1000	1000	39.37
HJLL 1200	1200	47.24
HJLL 1250	1250	49.21
HJLL 1500	1500	59.06
HJLL 2000	2000	78.74
HJLL 2500	2500	98.43
HJLL 3000	3000	118.11



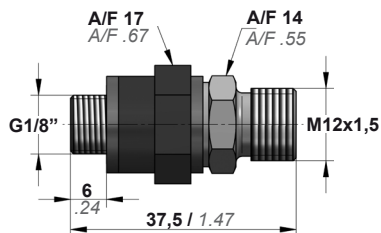
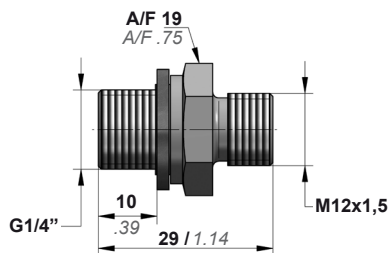
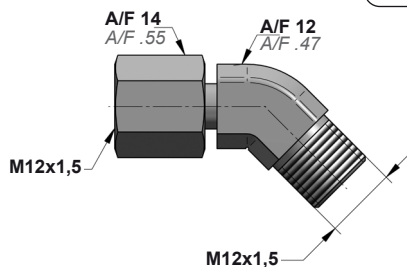
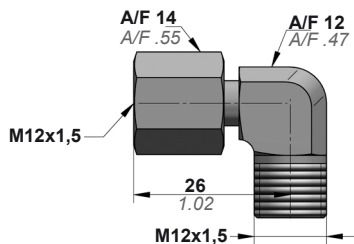
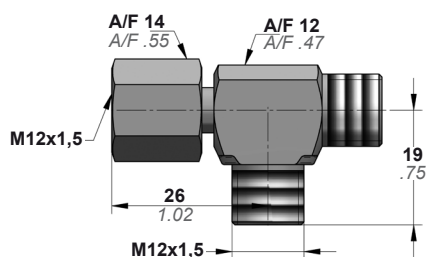
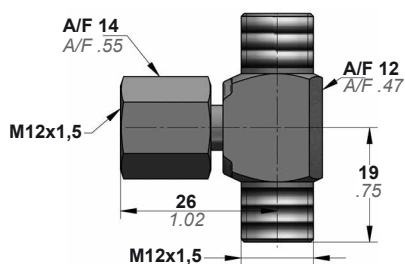
ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

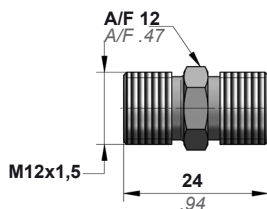
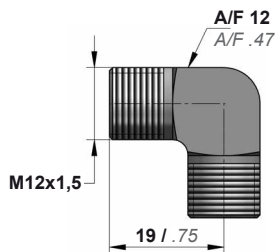
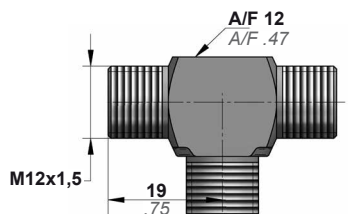
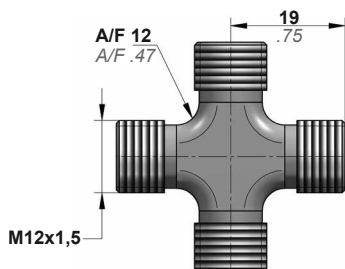
**HJLL 200****HJLL 200 G**

HJRT**HJLT****GF 02****RBP 5**

M12 x 1,5 (05/09)

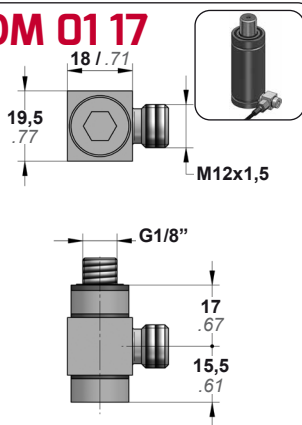
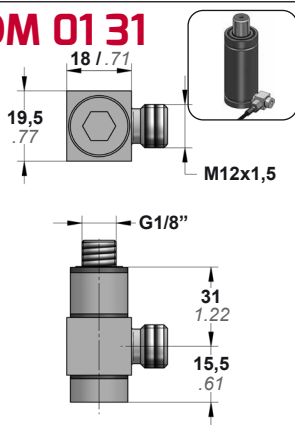
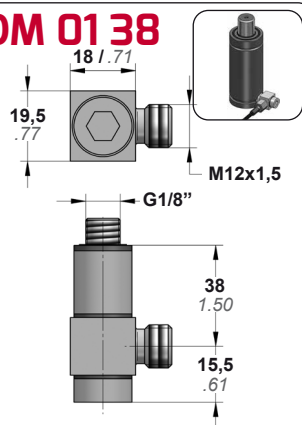
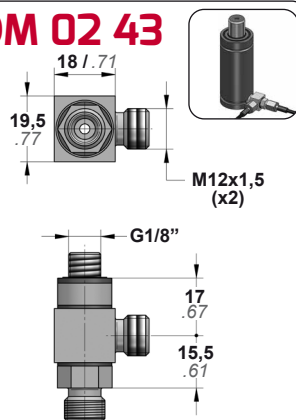
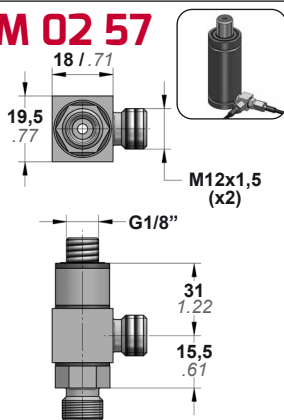
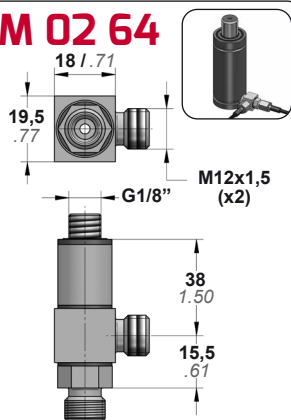
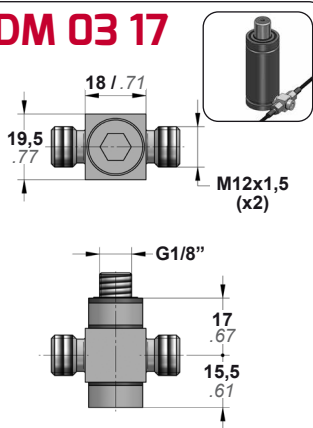
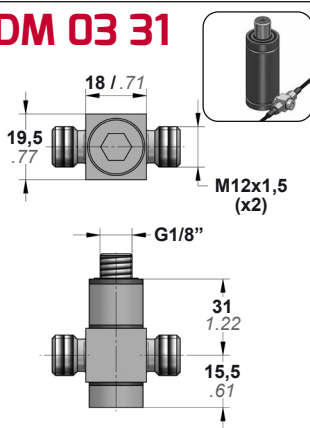
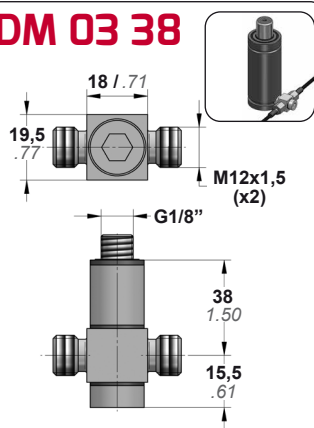
Hosed Systems

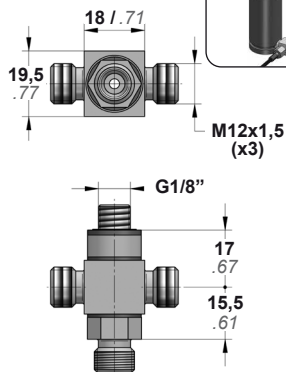
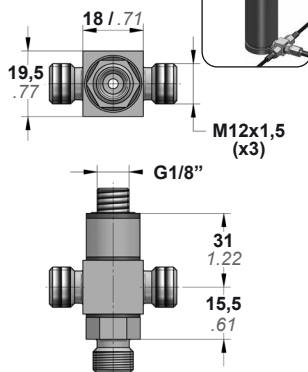
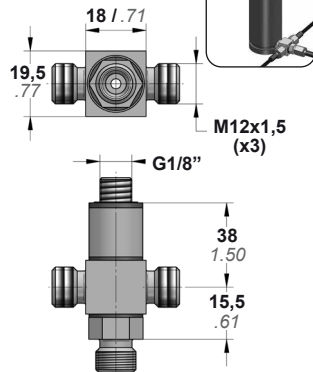
AZOL
GAS **DRM8****DRM4****DLFD****DCFD****DWFD****DTFD**

DIMD**DCMD****DTMD****DXMD**

M12 x 1,5 (05/09)

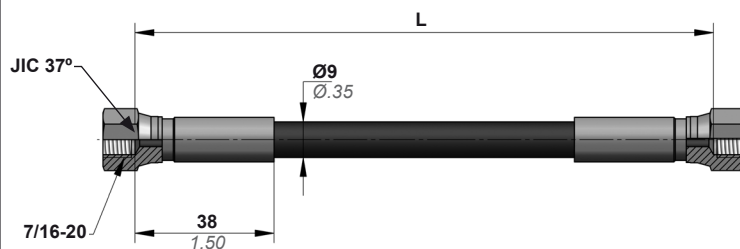
Hosed Systems

AZOL
GAS**DM 01 17****DM 01 31****DM 01 38****DM 02 43****DM 02 57****DM 02 64****DM 03 17****DM 03 31****DM 03 38**

DM 04 43**DM 04 57****DM 04 64**

7/16" UNF (Ø9)

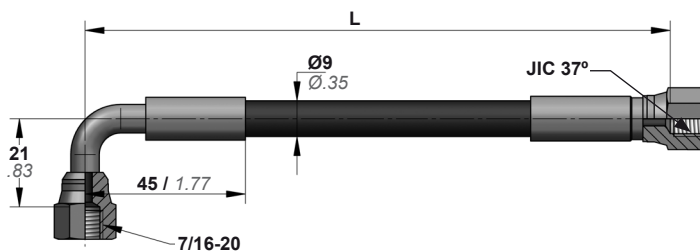
Hosed Systems

**AZOL
GAS****TFRR**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
TFRR 200	200	7.87
TFRR 300	300	11.81
TFRR 400	400	15.75
TFRR 500	500	19.69
TFRR 630	630	24.80
TFRR 800	800	31.50
TFRR 1000	1000	39.37
TFRR 1200	1200	47.24
TFRR 1250	1250	49.21
TFRR 1500	1500	59.06
TFRR 2000	2000	78.74
TFRR 2500	2500	98.43
TFRR 3000	3000	118.11



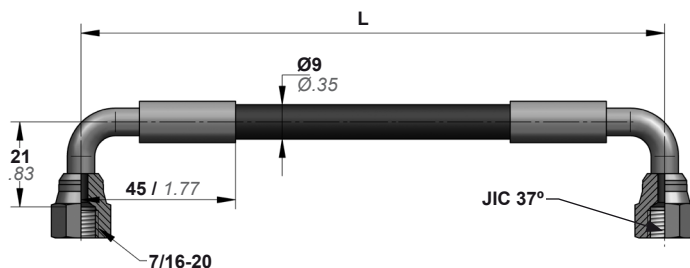
ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**TFRR 200****TFRL**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
TFRL 200	200	7.87
TFRL 300	300	11.81
TFRL 400	400	15.75
TFRL 500	500	19.69
TFRL 630	630	24.80
TFRL 800	800	31.50
TFRL 1000	1000	39.37
TFRL 1200	1200	47.24
TFRL 1250	1250	49.21
TFRL 1500	1500	59.06
TFRL 2000	2000	78.74
TFRL 2500	2500	98.43
TFRL 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

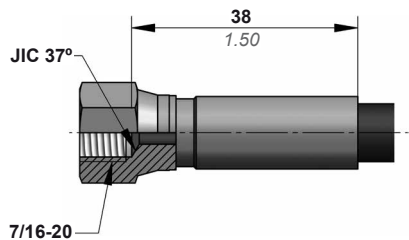
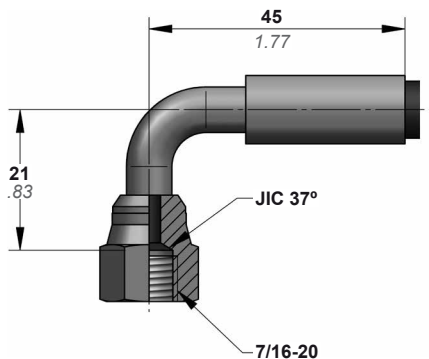
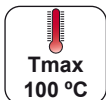
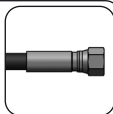
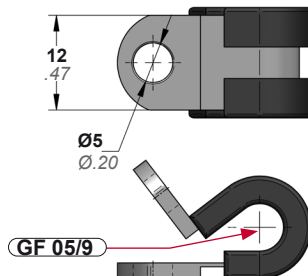
**TFRL 200****TFLL**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
TFLL 200	200	7.87
TFLL 300	300	11.81
TFLL 400	400	15.75
TFLL 500	500	19.69
TFLL 630	630	24.80
TFLL 800	800	31.50
TFLL 1000	1000	39.37
TFLL 1200	1200	47.24
TFLL 1250	1250	49.21
TFLL 1500	1500	59.06
TFLL 2000	2000	78.74
TFLL 2500	2500	98.43
TFLL 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**TFLL 200**

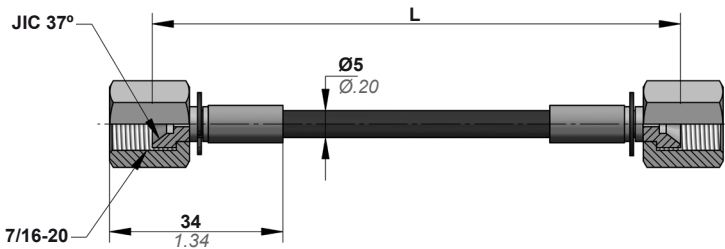
TFRT**TFLT****GF 05/9****RBP 10**

7/16" UNF (Ø5)

Hosed Systems



SMRR



ORDER	L ⁺⁵ ₋₀ (mm)	L ^{+0.20} ₋₀ (inch)
SMRR 200	200	7.87
SMRR 300	300	11.81
SMRR 400	400	15.75
SMRR 500	500	19.69
SMRR 630	630	24.80
SMRR 800	800	31.50
SMRR 1000	1000	39.37
SMRR 1200	1200	47.24
SMRR 1250	1250	49.21
SMRR 1500	1500	59.06
SMRR 2000	2000	78.74
SMRR 2500	2500	98.43
SMRR 3000	3000	118.11

ENG ORDER

DEU BESTELL

FRA COMMANDE

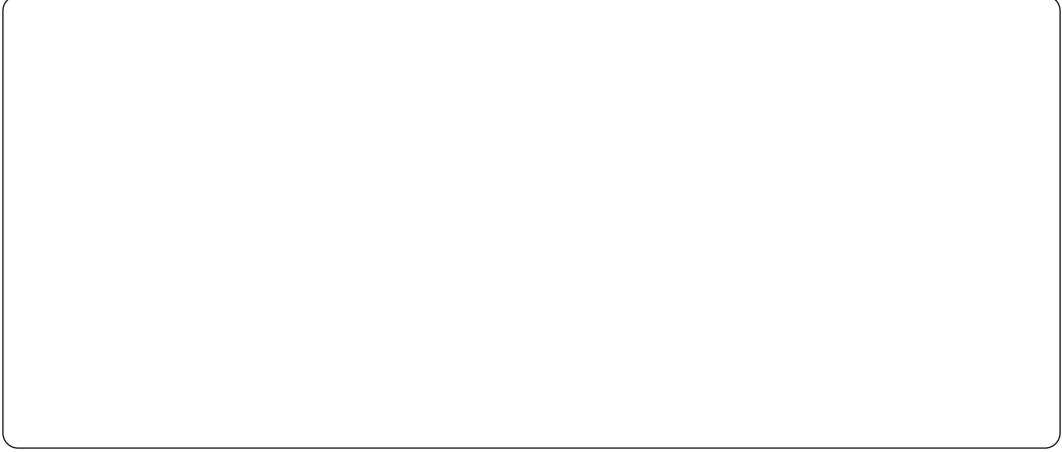
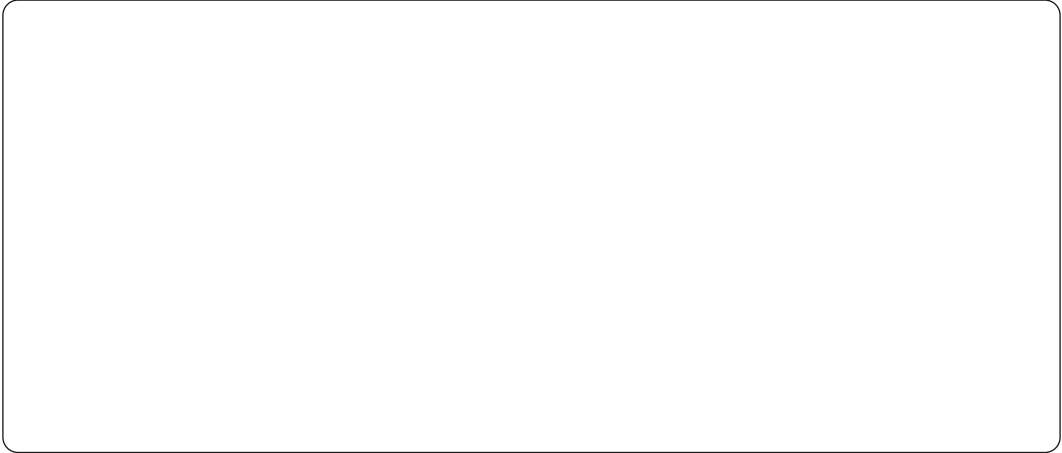
ITA ORDINE

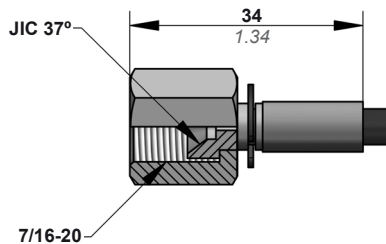
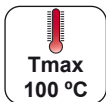
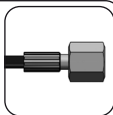
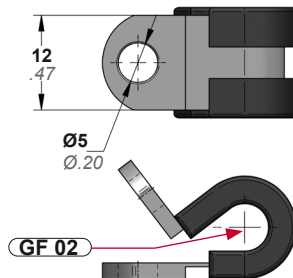
ESP PEDIDO

POR PEDIDO

SMRR 200

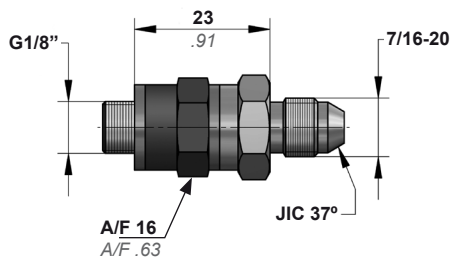
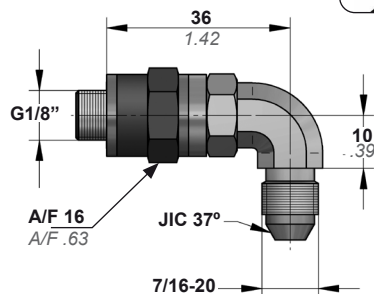
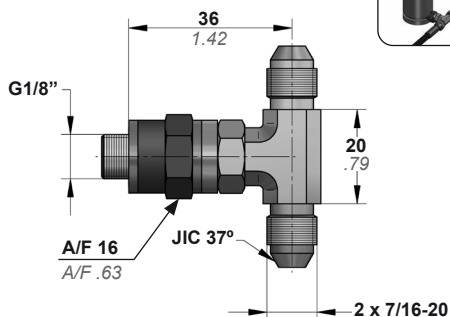
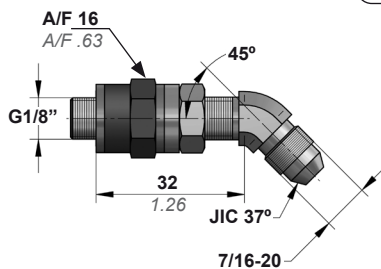
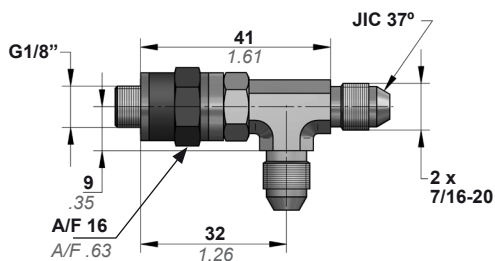
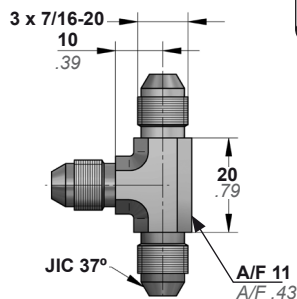
SMRR 200 G

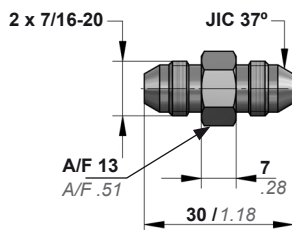
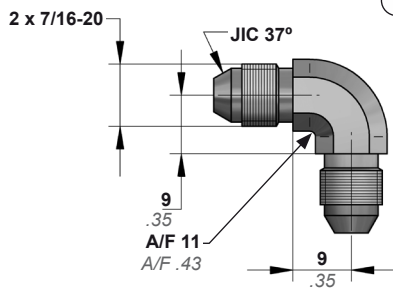
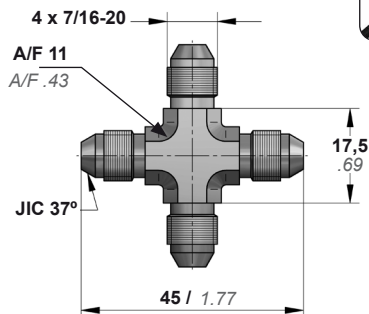
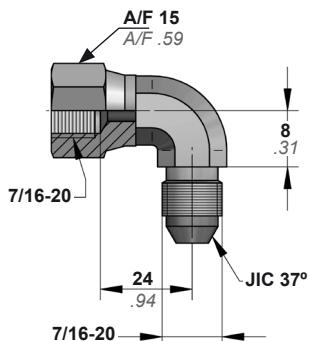
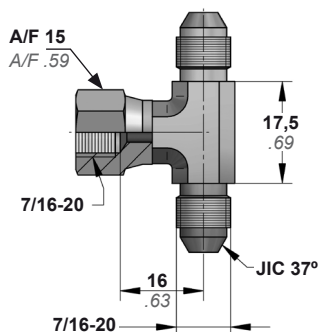
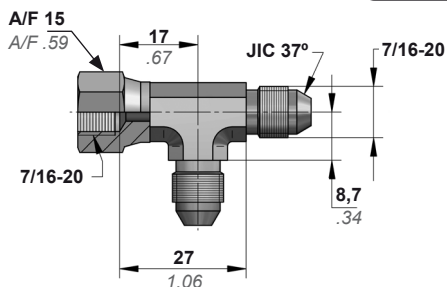


SMRT**GF 02****RBP 5**

7/16" UNF (Ø5/Ø9)

Hosed Systems

**AZOL
GAS** **7RM8****7CM8****7EM8****7LM8****7TL8****7TM7**

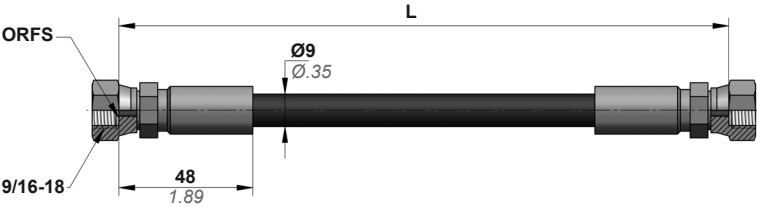
7IM7**7NM7****7XM7****7CF7****7TF7****7WF7**

9/16" UNF (Ø9)

Hosed Systems



MCRR



ORDER	L ⁺⁵ ₋₀ (mm)	L ^{+0.20} ₋₀ (inch)
MCRR 200	200	7.87
MCRR 300	300	11.81
MCRR 400	400	15.75
MCRR 500	500	19.69
MCRR 630	630	24.80
MCRR 800	800	31.50
MCRR 1000	1000	39.37
MCRR 1200	1200	47.24
MCRR 1250	1250	49.21
MCRR 1500	1500	59.06
MCRR 2000	2000	78.74

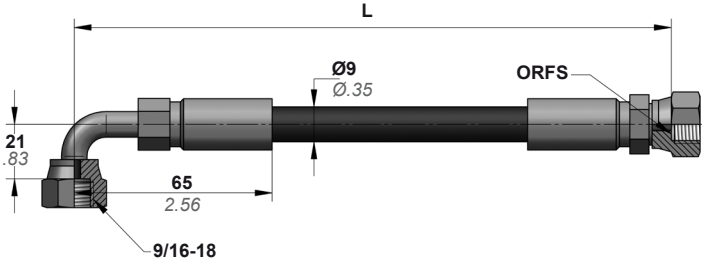


ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO



MCRR 200

MCRL



ORDER	L ⁺⁵ ₋₀ (mm)	L ^{+0.20} ₋₀ (inch)
MCRL 200	200	7.87
MCRL 300	300	11.81
MCRL 400	400	15.75
MCRL 500	500	19.69
MCRL 630	630	24.80
MCRL 800	800	31.50
MCRL 1000	1000	39.37
MCRL 1200	1200	47.24
MCRL 1250	1250	49.21
MCRL 1500	1500	59.06
MCRL 2000	2000	78.74
MCRL 2500	2500	98.43
MCRL 3000	3000	118.11

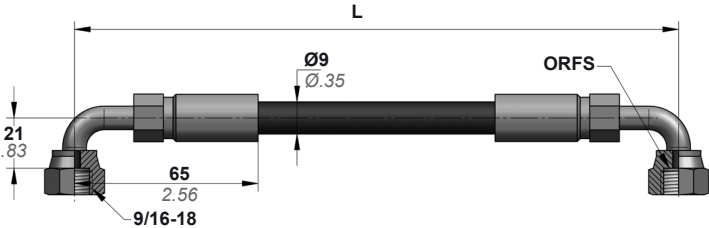


ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO



MCRL 200

MCLL



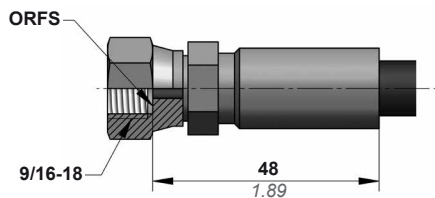
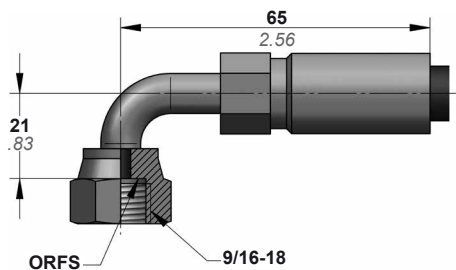
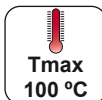
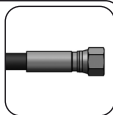
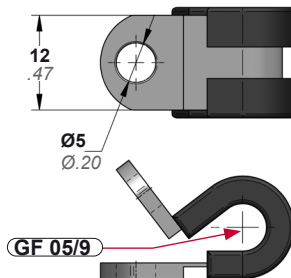
ORDER	L ⁺⁵ ₋₀ (mm)	L ^{+0.20} ₋₀ (inch)
MCLL 200	200	7.87
MCLL 300	300	11.81
MCLL 400	400	15.75
MCLL 500	500	19.69
MCLL 630	630	24.80
MCLL 800	800	31.50
MCLL 1000	1000	39.37
MCLL 1200	1200	47.24
MCLL 1250	1250	49.21
MCLL 1500	1500	59.06
MCLL 2000	2000	78.74
MCLL 2500	2500	98.43
MCLL 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

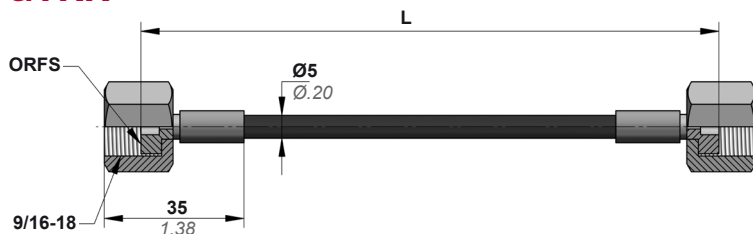


MCLL 200

MCRT**MCLT****GF 05/9****RBP 10**

9/16" UNF (Ø5)

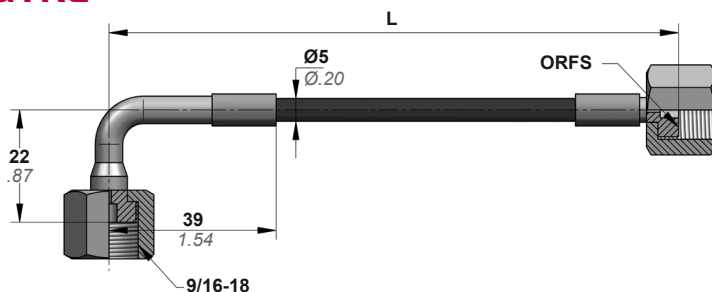
Hosed Systems

**AZOL
GAS****GTRR**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
GTRR 200	200	7.87
GTRR 300	300	11.81
GTRR 400	400	15.75
GTRR 500	500	19.69
GTRR 630	630	24.80
GTRR 800	800	31.50
GTRR 1000	1000	39.37
GTRR 1200	1200	47.24
GTRR 1250	1250	49.21
GTRR 1500	1500	59.06
GTRR 2000	2000	78.74



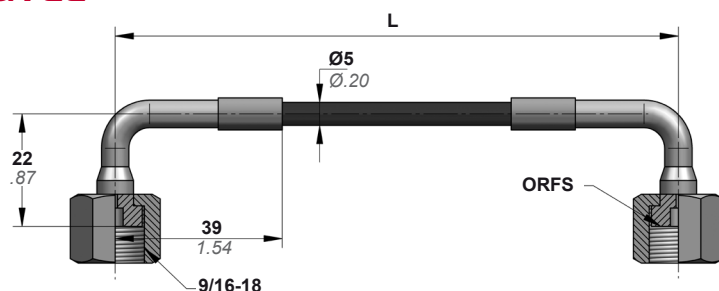
ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**GTRR 200****GTRR 200 G****GTRL**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
GTRL 200	200	7.87
GTRL 300	300	11.81
GTRL 400	400	15.75
GTRL 500	500	19.69
GTRL 630	630	24.80
GTRL 800	800	31.50
GTRL 1000	1000	39.37
GTRL 1200	1200	47.24
GTRL 1250	1250	49.21
GTRL 1500	1500	59.06
GTRL 2000	2000	78.74
GTRL 2500	2500	98.43
GTRL 3000	3000	118.11



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

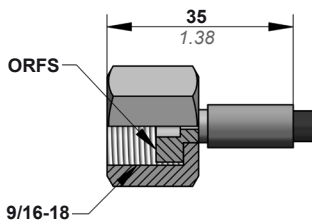
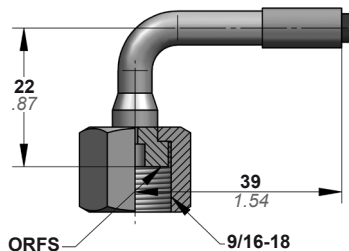
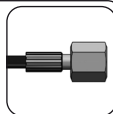
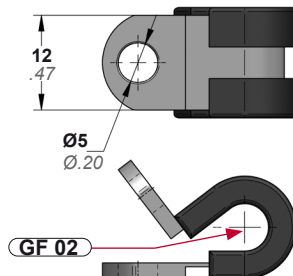
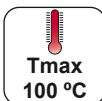
**GTRL 200****GTRL 200 G****GTLL**

ORDER	L ^{+5 -0} (mm)	L ^{+0.20 -0} (inch)
GTLL 200	200	7.87
GTLL 300	300	11.81
GTLL 400	400	15.75
GTLL 500	500	19.69
GTLL 630	630	24.80
GTLL 800	800	31.50
GTLL 1000	1000	39.37
GTLL 1200	1200	47.24
GTLL 1250	1250	49.21
GTLL 1500	1500	59.06
GTLL 2000	2000	78.74
GTLL 2500	2500	98.43
GTLL 3000	3000	118.11



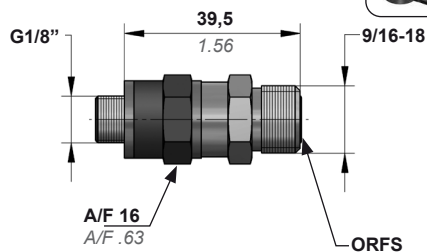
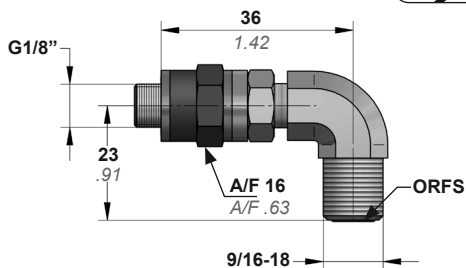
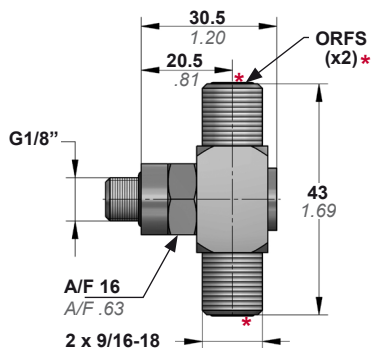
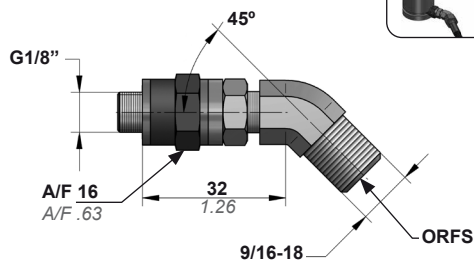
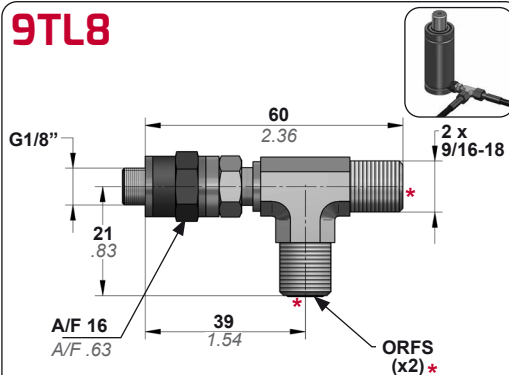
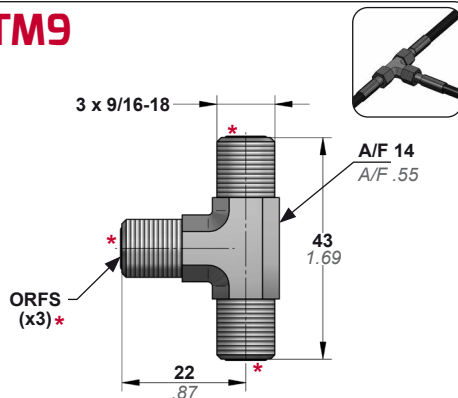
ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

**GTLL 200****GTLL 200 G**

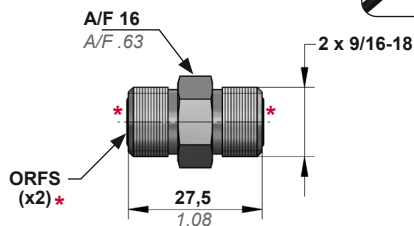
GTRT**GTLT****GF 02****RBP 5****Pmax**
345 bar**Tmax**
100 °C**Rmin**
20 mm

9/16" UNF (Ø5/Ø9)

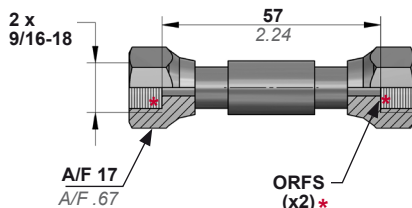
Hosed Systems

AZOL
GAS**9RM8****9CM8****9EM8****9LM8****9TL8****9TM9**

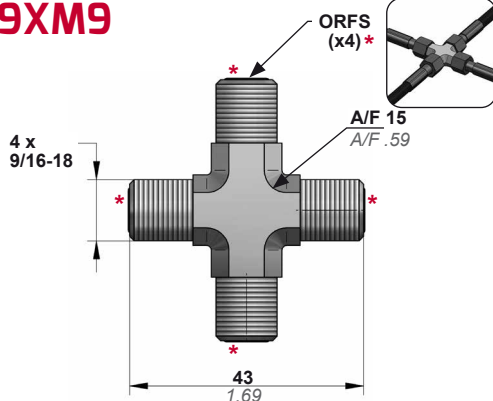
9IM9



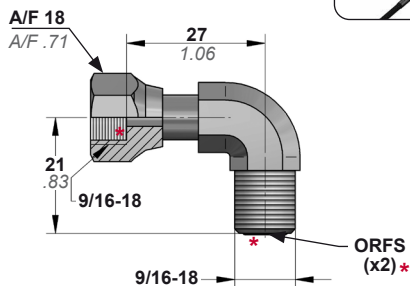
9SR9



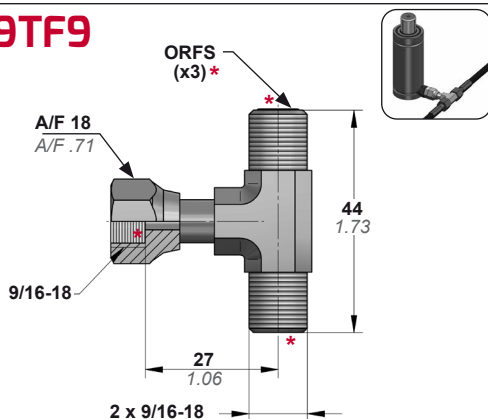
9XM9



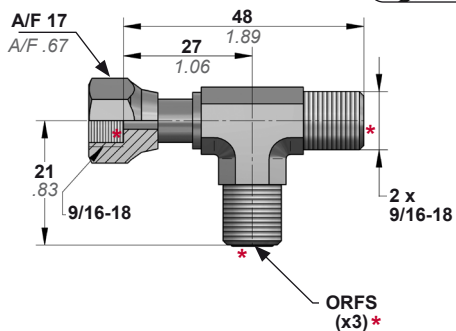
9CF9



9TF9

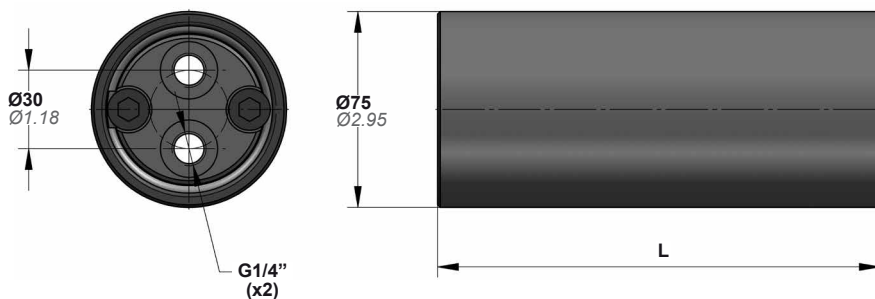


9WF9



COMPENSATION TANKS

Hosed Systems

**AZOL
GAS** **DFC 75**

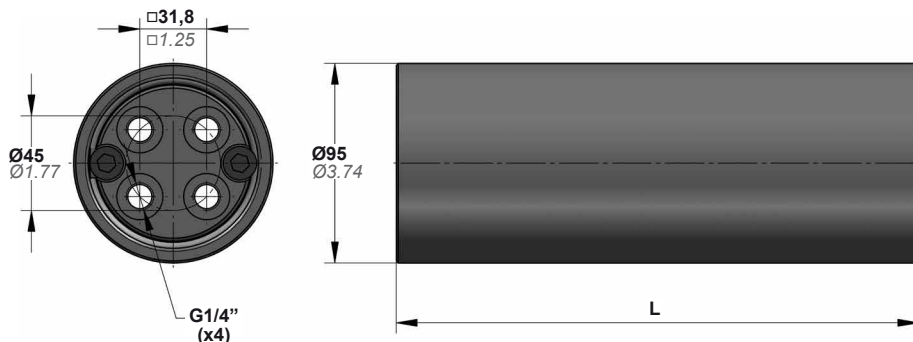
ORDER	Vol. l in ³	L mm inch	 Kg. lb
DFC 75 025	0.25 15.26	170 6.69	3.70 8.16
DFC 75 050	0.50 30.51	250 9.84	4.52 9.96
DFC 75 100	1.00 61.02	410 16.14	6.15 13.56



ENG	ORDER
DEU	BESTELL
FRA	COMMANDE
ITA	ORDINE
ESP	PEDIDO
POR	PEDIDO



DFC 75 025

DFC 95

ORDER	Vol. l in ³	L mm inch	 Kg. lb
DFC 95 100	1.00 61.02	300 11.81	8.42 18.56
DFC 95 200	2.00 122.05	500 19.69	11.66 25.71
DFC 95 300	3.00 183.07	700 27.56	14.89 32.83
DFC 95 400	4.00 244.10	900 35.43	18.13 39.97

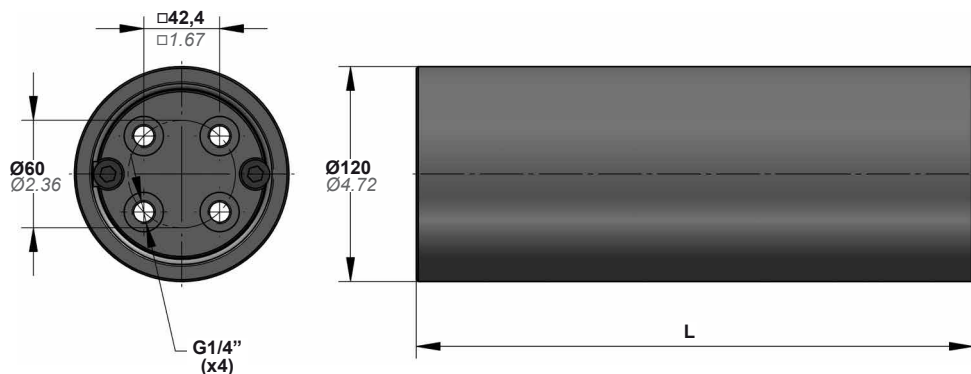


ENG	ORDER
DEU	BESTELL
FRA	COMMANDE
ITA	ORDINE
ESP	PEDIDO
POR	PEDIDO



DFC 95 100

DFC 120



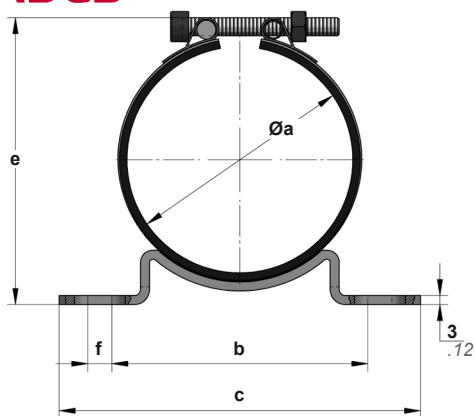
ORDER	Vol. l in ³	L mm inch	Kg. lb
DFC 120 200	2.00 122.05	360 14.17	15.78 34.79
DFC 120 400	4.00 244.10	615 24.21	22.70 50.04
DFC 120 800	8.00 488.19	1125 44.29	42.12 92.86



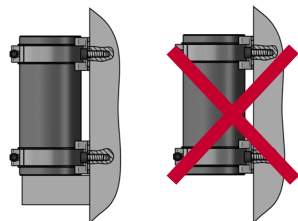
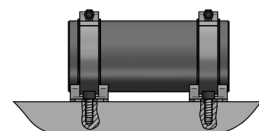
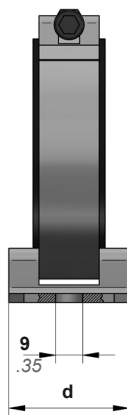
ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO


DFC 120 200

ADCB



ORDER	Øa mm inch	b mm inch	c mm inch	d mm inch	e mm inch	f mm inch
ADCB 75	75 2.95	85 3.35	120 4.72	40 1.57	96 3.78	8 0.31
ADCB 95	95 3.74	85 3.35	120 4.72	40 1.57	115 4.53	8 0.31
ADCB 120	120 4.72	100 3.94	156 6.14	50 1.97	154 6.06	18 0.71



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO


ADCB 75

DIE INFORMATION TAGS

Hosed Systems

AZOL
GAS

PI-01

127 / 5

ATTENTION

TOOL WITH GAS SPRINGS
MAXIMUM CHARGING PRESSURE **150 bar**
BEFORE HANDLING GAS SPRINGS MAKE SURE
THEY ARE TOTALLY DISCHARGED.
KEEP THEM AWAY FROM IMPACTS AND WELDING
SCRAPS, ETC.

AZOL GAS **AZOLGAS**
Landalucía, 7 - Pl. Jündiz
01015 Vitoria / Spain

70
2.76

 **ENG ORDER**
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

ATTENTION
TOOL WITH GAS SPRINGS
MAXIMUM CHARGING PRESSURE **150 bar**
BEFORE HANDLING GAS SPRINGS MAKE SURE
THEY ARE TOTALLY DISCHARGED.
KEEP THEM AWAY FROM IMPACTS AND WELDING
SCRAPS, ETC.

AZOL GAS **AZOLGAS**
Landalucía, 7 - Pl. Jündiz
01015 Vitoria / Spain

PI-01-ENG

PI-01-ESP	SPANISH	PI-01-POL	POLISH
PI-01-ENG	ENGLISH	PI-01-TUR	TURKISH
PI-01-ITA	ITALIAN	PI-01-RUS	RUSSIAN
PI-01-FRE	FRENCH	PI-01-CHI	CHINESE
PI-01-GER	GERMAN	PI-01-JAP	JAPANESE
PI-01-POR	PORTUGUESE	PI-01-KOR	KOREAN

PI-02

127 / 5

AZOL GAS **ATTENTION:**
This tool is equipped with gas cylinder in:

Keep out from shocks, heat projections, etc.

MODEL _____
QUANTITY _____
USEFUL STROKE _____ THEORETIC STROKE _____

FORCE PER CYLINDER _____ daN.
TOTAL WORKING FORCE _____ daN.

CHARGING PRESSURE _____ bar.

70
2.76

 **ENG ORDER**
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

ATTENTION:
This tool is equipped with gas cylinder in:
Keep out from shocks, heat projections, etc.

MODEL _____
QUANTITY _____
USEFUL STROKE _____ THEORETIC STROKE _____

FORCE PER CYLINDER _____ daN.
TOTAL WORKING FORCE _____ daN.

CHARGING PRESSURE _____ bar.

PI-02-ENG

PI-02-ESP	SPANISH	PI-02-POL	POLISH
PI-02-ENG	ENGLISH	PI-02-TUR	TURKISH
PI-02-ITA	ITALIAN	PI-02-RUS	RUSSIAN
PI-02-FRE	FRENCH	PI-02-CHI	CHINESE
PI-02-GER	GERMAN	PI-02-JAP	JAPANESE
PI-02-POR	PORTUGUESE	PI-02-KOR	KOREAN

PI-11

GM 90.20.09

150 / 5.90

CAUTION

EXHAUST ALL PRESSURE AND COLLAPSE
CYLINDERS BEFORE SERVICING SYSTEM.
MAXIMUM CHARGING PRESSURE 103 BAR / 1500 PSI

DIE NO. _____
CYLINDER _____ SEAL KIT _____
OPERATING PRESSURE _____ BAR _____ PSI

75
2.95

 **ENG ORDER**
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

CAUTION
EXHAUST ALL PRESSURE AND COLLAPSE
CYLINDERS BEFORE SERVICING SYSTEM.
MAXIMUM CHARGING PRESSURE 103 BAR / 1500 PSI

DIE NO. _____ SEAL KIT _____
CYLINDER _____ OPERATING PRESSURE _____ BAR _____ PSI

PI-11-ENG

PI-11-ESP	SPANISH	PI-11-TUR	TURKISH
PI-11-ENG	ENGLISH	PI-11-RUS	RUSSIAN
PI-11-GER	GERMAN	PI-11-THA	THAI
PI-11-FRE	FRENCH	PI-11-CHI	CHINESE
PI-11-POR	PORTUGUESE	PI-11-JAP	JAPANESE
PI-11-POL	POLISH	PI-11-KOR	KOREAN

PI-12

GM 90.20.08

150 / 5.90

CAUTION

EXHAUST ALL PRESSURE AND COLLAPSE
CYLINDERS BEFORE SERVICING SYSTEM.
MAXIMUM CHARGING PRESSURE 150 BAR / 2175 PSI

DIE NO. _____
CYLINDER _____ SEAL KIT _____
OPERATING PRESSURE _____ BAR _____ PSI

75
2.95

 **ENG ORDER**
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

CAUTION
EXHAUST ALL PRESSURE AND COLLAPSE
CYLINDERS BEFORE SERVICING SYSTEM.
MAXIMUM CHARGING PRESSURE 150 BAR / 2175 PSI

DIE NO. _____ SEAL KIT _____
CYLINDER _____ OPERATING PRESSURE _____ BAR _____ PSI

PI-12-ENG

PI-12-ESP	SPANISH	PI-12-TUR	TURKISH
PI-12-ENG	ENGLISH	PI-12-RUS	RUSSIAN
PI-12-GER	GERMAN	PI-12-THA	THAI
PI-12-FRE	FRENCH	PI-12-CHI	CHINESE
PI-12-POR	PORTUGUESE	PI-12-JAP	JAPANESE
PI-12-POL	POLISH	PI-12-KOR	KOREAN

PI-21

GM 90.20.07

150 / 5.90

75
2.95

☐ PART No. _____ WT UPPER DIE ASSY _____
☐ STYLE No. _____ WT LOWER DIE ASSY _____
 TYPE DIE _____ WT DRAW PUNCH ASSY _____
 PRESS STROKE REQ'D _____ WT TOTAL DIE ASSY _____
 CALCULATED TONNAGE _____ BINDER _____ PUNCH _____

THIS DIE ALSO MAKES
PART No. _____ STYLE _____ DIE CH'G REQUIRED _____

☐ G.M.C. _____ TOOL NO. _____



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

☐ PART No. _____ WT UPPER DIE ASSY _____
☐ STYLE No. _____ WT LOWER DIE ASSY _____
 TYPE DIE _____ WT DRAW PUNCH ASSY _____
 PRESS STROKE REQ'D _____ WT TOTAL DIE ASSY _____
 CALCULATED TONNAGE _____ BINDER _____ PUNCH _____

THIS DIE ALSO MAKES
PART No. _____ STYLE _____ DIE CH'G REQUIRED _____

☐ G.M.C. _____ TOOL NO. _____

PI-21-ENG

PI-21-ESP	SPANISH
PI-21-ENG	ENGLISH
PI-21-GER	GERMAN
PI-21-FRE	FRENCH
PI-21-POR	PORTUGUESE
PI-21-POL	POLISH

PI-21-TUR	TURKISH
PI-21-RUS	RUSSIAN
PI-21-THA	THAI
PI-21-CHI	CHINESE
PI-21-JAP	JAPANESE
PI-21-KOR	KOREAN

PI-22

FIAT A0.15.01

80 / 3.15

70
2.76

IMPIANTO CON AZOTO
 PRESSIONE (MAX DI CARICA: DI LAVORO:

ATTENZIONE

PRIMA DI ESEGUIRE INTERVENTI MANUTENTIVI SULLO STAMPO O SULL'IMPIANTO SCARICARE L'AZOTO VERIFICANDO L'AVVENUTO AZZERAMENTO DEL MANOMETRO

COLORE COLOUR	Pmax. (Mpa)	Pmax. (bar)
AZZURRO BLUE	3.75	37.5
VERDE GREEN	7.5	75
ROSSO RED	10.5	105
GIALLO YELLOW	15	150



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO



COLORE COLOUR	Pmax. (Mpa)	Pmax. (bar)
AZZURRO BLUE	3.75	37.5
VERDE GREEN	7.5	75
ROSSO RED	10.5	105
GIALLO YELLOW	15	150

PI-22-ITA GIALLO

PI-22-ESP	SPANISH
PI-22-ENG	ENGLISH
PI-22-ITA	ITALIAN
PI-22-FRE	FRENCH
PI-22-POR	PORTUGUESE

PI-22-POL	POLISH
PI-22-SER	SERBIAN
PI-22-TUR	TURKISH
PI-22-RUS	RUSSIAN
PI-22-CHI	CHINESE

PI-31

EM24.54.700

145 / 5.71

100
3.94

MATRICULE OUTIL _____ PARTIE SUP ☐ INF ☐

CEST OUTILLAGE EST EQUIPE DE RESSORTS A GAZ GONFLES A 15 MPa MAX. CES ELEMENTS DOIVENT ETRE PROTEGES DES CHOC, DE LA CHALEUR ET DE TOUTES PROJECTIONS (SOUDURES, EMERI ...)

QUANTITE DE RESSORTS A GAZ, DE PORTER A CAME ET D'ARRACHEUR PAR TYPE ET PAR COURSE

RESSORTS A GAZ	10	15	25	50	80	100	125	150	200
750									
1500									
3000									
5000									
10000									
15000									
20000									
25000									
30000									
35000									
40000									
45000									
50000									
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155000									
160000									
165000									
170000									
175000									
180000									
185000									
190000									
195000									
200000									

PORTER A CAME
 ARRACHEURS

PREVENTIF



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

MATRICULE OUTIL _____ PARTIE SUP ☐ INF ☐

CEST OUTILLAGE EST EQUIPE DE RESSORTS A GAZ GONFLES A 15 MPa MAX. CES ELEMENTS DOIVENT ETRE PROTEGES DES CHOC, DE LA CHALEUR ET DE TOUTES PROJECTIONS (SOUDURES, EMERI ...)

QUANTITE DE RESSORTS A GAZ, DE PORTER A CAME ET D'ARRACHEUR PAR TYPE ET PAR COURSE

RESSORTS A GAZ	10	15	25	50	80	100	125	150	200
750									
1500									
3000									
5000									
10000									
15000									
20000									
25000									
30000									
35000									
40000									
45000									
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125000									
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145000									
150000									
155000									
160000									
165000									
170000									
175000									
180000									
185000									
190000									
195000									
200000									

PORTER A CAME
 ARRACHEURS

PREVENTIF

PI-31-FRE

PI-31-ESP	SPANISH
PI-31-ENG	ENGLISH
PI-31-FRE	FRENCH
PI-31-POR	PORTUGUESE
PI-31-ROM	ROMANIAN

PI-31-TUR	TURKISH
PI-31-RUS	RUSSIAN
PI-31-CHI	CHINESE
PI-31-JAP	JAPANESE
PI-31-KOR	KOREAN

PI-32

EM24.54.700

125 / 4.92

71
2.80

PRESSION DE TRAVAIL
 MPa
 PRESSION D'ARRET
 MPa



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

PRESSION DE TRAVAIL
 MPa
 PRESSION D'ARRET
 MPa

PI-32-FRE

PI-32-ESP	SPANISH
PI-32-ENG	ENGLISH
PI-32-FRE	FRENCH
PI-32-POR	PORTUGUESE
PI-32-ROM	ROMANIAN

PI-32-TUR	TURKISH
PI-32-RUS	RUSSIAN
PI-32-CHI	CHINESE
PI-32-JAP	JAPANESE
PI-32-KOR	KOREAN

DIE INFORMATION TAGS

Hosed Systems

AZOL
GAS

PI-41

E24.54.815



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

ATTENTION
CET OUTILLAGE EST EQUIPE DE
RESSORTS A GAZ GONFLES A 150 BAR
MAX. CES ELEMENTS DOIVENT ETRE
PROTEGES DES CHOCs, DE LA CHALEUR
ET DES PROJECTIONS
(SOUDURE, EMERI...)
AZOL GAS

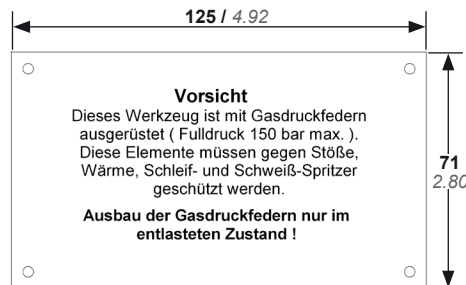
PI-41-FRE

PI-41-ESP	SPANISH
PI-41-ENG	ENGLISH
PI-41-FRE	FRENCH
PI-41-POR	PORTUGUESE
PI-41-SLK	SLOVAK

PI-41-TUR	TURKISH
PI-41-RUS	RUSSIAN
PI-41-CHI	CHINESE
PI-41-JAP	JAPANESE
PI-41-KOR	KOREAN

PI-51

VDI 3003



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

Vorsicht
Dieses Werkzeug ist mit Gasdruckfedern
ausgerüstet (Fülldruck 150 bar max.).
Diese Elemente müssen gegen Stöße,
Wärme, SchleiF- und Schweiß-Spritzer
geschützt werden.
Ausbau der Gasdruckfedern nur im
entlasteten Zustand !

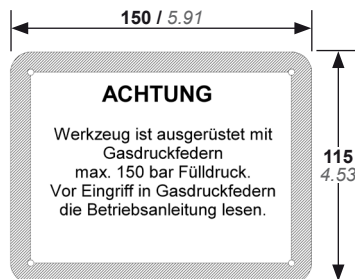
PI-51-GER

PI-51-ESP	SPANISH
PI-51-ENG	ENGLISH
PI-51-GER	GERMAN
PI-51-POR	PORTUGUESE
PI-51-ITA	ITALIAN
PI-51-CZE	CZECH

PI-51-POL	POLISH
PI-51-SLK	SLOVAK
PI-51-HUN	HUNGARIAN
PI-51-RUS	RUSSIAN
PI-51-CHI	CHINESE
PI-51-JAP	JAPANESE

PI-42

VW 39D 578



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

ACHTUNG
Werkzeug ist ausgerüstet mit
Gasdruckfedern
max. 150 bar Fülldruck.
Vor Eingriff in Gasdruckfedern
die Betriebsanleitung lesen.

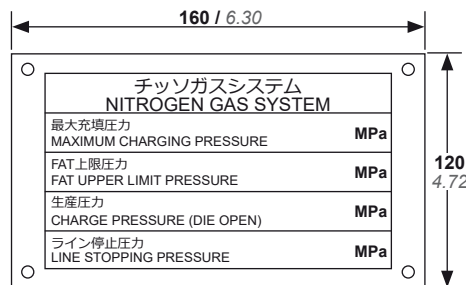
PI-42-GER

PI-42-ESP	SPANISH
PI-42-ENG	ENGLISH
PI-42-GER	GERMAN
PI-42-POR	PORTUGUESE
PI-42-CZE	CZECH
PI-42-POL	POLISH

PI-42-SLK	SLOVAK
PI-42-HUN	HUNGARIAN
PI-42-BOS	BOSNIAN
PI-42-RUS	RUSSIAN
PI-42-UKR	UKRANIAN
PI-42-CHI	CHINESE

PI-52

SMS DKH 321 1n



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO

チッソガスシステム
NITROGEN GAS SYSTEM
最大充填圧力
MAXIMUM CHARGING PRESSURE
MPa
FAT 上限圧力
FAT UPPER LIMIT PRESSURE
MPa
生産圧力
CHARGE PRESSURE (DIE OPEN)
MPa
ライン停止圧力
LINE STOPPING PRESSURE
MPa

PI-52-JAP

PI-52-ESP	SPANISH
PI-52-JAP	JAPANESE
PI-52-ENG	ENGLISH
PI-52-POR	PORTUGUESE
PI-52-FRE	FRENCH

PI-52-TUR	TURKISH
PI-52-RUS	RUSSIAN
PI-52-THA	THAI
PI-52-INS	INDONESIAN

PI-53
B2 5707

105 / 4.13

Hier sind Gasdruckfedern eingebaut
Gas springs are fitted here

Sach - Nr. / FM / Die - No.	Bestell - Nr. Order - No.	Anzahl Number of	Druck (bar) Pressure (bar)

60
2.36



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO



Hier sind Gasdruckfedern eingebaut
Gas springs are fitted here

Sach - Nr. / FM / Die - No.	Bestell - Nr. Order - No.	Anzahl Number of	Druck (bar) Pressure (bar)

PI-53-GER

PI-53-ESP SPANISH
PI-53-GER GERMANY
PI-53-ENG ENGLISH
PI-53-RUS RUSSIAN

PI-53-CHI CHINESE
PI-53-THA THAI
PI-53-MAL MALAYSIAN
PI-53-INS INDONESIAN

PI-54
B2 5707

105 / 4.13

Achtung !
Werkzeug ist ausgerüstet mit Gasdruckfedern !
Bei Service oder Reparaturmaßnahmen die Betriebsanleitung des Herstellers beachten.

Warning !
Tool is equipped with gas springs !
For service and repair please refer to instruction.

40
1.57



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO



Achtung !
Werkzeug ist ausgerüstet mit Gasdruckfedern !
Bei Service oder Reparaturmaßnahmen die Betriebsanleitung des Herstellers beachten.

Warning !
Tool is equipped with gas springs !
For service and repair please refer to instruction.

PI-54-GER

PI-54-ESP SPANISH
PI-54-GER GERMANY
PI-54-ENG ENGLISH
PI-54-RUS RUSSIAN

PI-54-CHI CHINESE
PI-54-THA THAI
PI-54-MAL MALAYSIAN
PI-54-INS INDONESIAN

PI-55
WDX20-70-2

210 / 8.27

WARNING! WDX20-70-2103

THIS DIE HAS A HIGH PRESSURE
NITROGEN SPRINGING SYSTEM

SET PRESSURE TO: MAXIMUM PRESSURE. BAR(lb. / in2) WHEN PRESS IS OPEN
BAR(lb. / in2) WHEN PRESS IS CLOSED

EXHAUST NITROGEN TO ATMOSPHERE BEFORE WORKING ON DIE

74
2.91



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO



WARNING! WDX20-70-2103
THIS DIE HAS A HIGH PRESSURE
NITROGEN SPRINGING SYSTEM
SET PRESSURE TO: MAXIMUM PRESSURE. BAR(lb. / in2) WHEN PRESS IS OPEN
BAR(lb. / in2) WHEN PRESS IS CLOSED
EXHAUST NITROGEN TO ATMOSPHERE BEFORE WORKING ON DIE

PI-55-ENG

PI-55-GER GERMANY
PI-55-DUT DUTCH
PI-55-ENG ENGLISH
PI-55-ESP SPANISH
PI-55-POR PORTUGUESE
PI-55-ROM ROMANIAN

PI-55-FRE FRENCH
PI-55-TUR TURKISH
PI-55-RUS RUSSIAN
PI-55-CHI CHINESE
PI-55-THA THAI
PI-55-MAL MALAYSIAN

PI-56
WDX20-70-35

210 / 8.27

WARNING! WDX20-60-3503

THIS DIE IS EQUIPPED WITH HIGH PRESSURE NITROGEN
GAS SPRINGS. (MAX. CHARGING PRESSURE: 150 BAR/180 BAR.)
GAS SPRINGS MUST BE PROTECTED AGAINST SIDE LOAD,
HIGH TEMPERATURE, GRINDING DUST AND WELDING
PARTICLES. GAS SPRINGS ARE TO BE REMOVED IN THE
DIE ONLY IN LOAD FREE POSITION.

74
2.91



ENG ORDER
DEU BESTELL
FRA COMMANDE
ITA ORDINE
ESP PEDIDO
POR PEDIDO



WARNING! WDX20-60-3503
THIS DIE IS EQUIPPED WITH HIGH PRESSURE NITROGEN
GAS SPRINGS. (MAX. CHARGING PRESSURE: 150 BAR/180 BAR.)
GAS SPRINGS MUST BE PROTECTED AGAINST SIDE LOAD,
HIGH TEMPERATURE, GRINDING DUST AND WELDING
PARTICLES. GAS SPRINGS ARE TO BE REMOVED IN THE
DIE ONLY IN LOAD FREE POSITION.

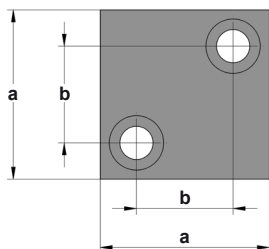
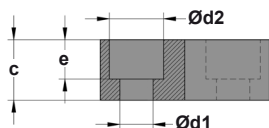
PI-56-ENG

PI-56-GER GERMANY
PI-56-DUT DUTCH
PI-56-ENG ENGLISH
PI-56-ESP SPANISH
PI-56-POR PORTUGUESE
PI-56-ROM ROMANIAN

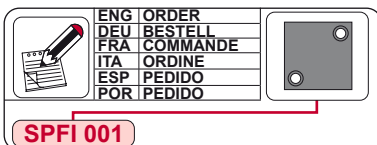
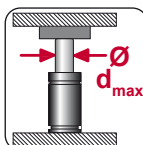
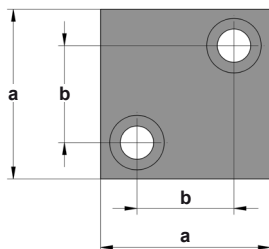
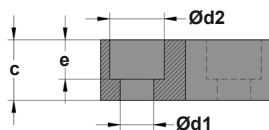
PI-56-FRE FRENCH
PI-56-TUR TURKISH
PI-56-RUS RUSSIAN
PI-56-CHI CHINESE
PI-56-THA THAI
PI-56-MAL MALAYSIAN

STRIKER PLATES

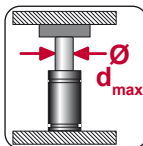
Hosed Systems

**AZOL
GAS** **SPFI****STQ.70040**

ORDER	$\varnothing$ d_{max}	a mm inch	b mm inch	c mm inch	$\varnothing d1$ mm inch	$\varnothing d2$ mm inch	e mm inch
SPFI 001	15 0.59	40 1.57	21 0.83	15 0.59	9 0.35	15 0.59	10 0.39
SPFI 002	25 0.98	56 2.20	32 1.26	20 0.79	11 0.43	18 0.71	13 0.51
SPFI 003	50 1.97	71 2.80	48 1.89	20 0.79	11 0.43	18 0.71	13 0.51
SPFI 004	65 2.56	90 3.54	67 2.64	20 0.79	11 0.43	18 0.71	13 0.51
SPFI 005	95 3.74	140 5.51	110 4.33	20 0.79	11 0.43	18 0.71	13 0.51

**SPVD****VDI 3003**

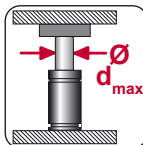
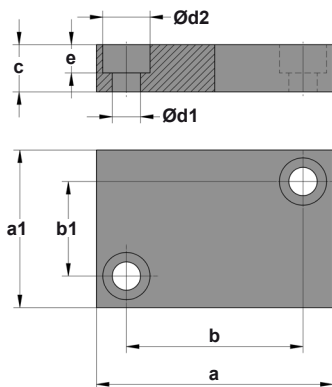
ORDER	$\varnothing$ d_{max}	a mm inch	b mm inch	c mm inch	$\varnothing d1$ mm inch	$\varnothing d2$ mm inch	e mm inch
SPVD 001	15 0.59	40 1.57	24 0.94	15 0.59	7 0.28	11 0.43	7 0.28
SPVD 002	50 1.97	70 2.76	50 1.97	15 0.59	9 0.35	15 0.59	9 0.35
SPVD 003	80 3.15	90 3.54	70 2.76	15 0.59	9 0.35	15 0.59	9 0.35



SPFI

STQ.70040

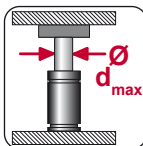
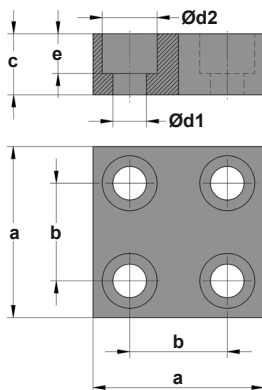
ORDER	Ø d _{max}	a (mm)	a1 (mm)	b (mm)	b1 (mm)	c (mm)	Ød1 (mm)	Ød2 (mm)	e (mm)
SPFI 010	15 0.59	50 1.97	25 0.98	32 1.26	8 0.31	12 0.47	7 0.28	11 0.43	7 0.28
SPFI 011	20 0.79	55 2.17	30 1.18	40 1.57	14 0.55	12 0.47	7 0.28	11 0.43	7 0.28
SPFI 012	25 0.98	70 2.76	35 1.38	48 1.89	15 0.59	15 0.59	9 0.35	15 0.59	9 0.35
SPFI 013	36 1.42	75 2.95	50 1.97	56 2.20	30 1.18	15 0.59	9 0.35	15 0.59	9 0.35
SPFI 014	50 1.97	85 3.35	60 2.36	66 2.60	40 1.57	15 0.59	9 0.35	15 0.59	9 0.35
SPFI 015	65 2.56	100 3.94	80 3.15	72 2.83	56 2.20	20 0.79	11 0.43	18 0.71	11 0.43
SPFI 016	95 3.74	110 4.33	100 3.94	85 3.35	75 2.95	20 0.79	11 0.43	18 0.71	11 0.43
SPFI 017	95 3.74	130 5.12	110 4.33	100 3.94	80 3.15	20 0.79	11 0.43	18 0.71	11 0.43


SPFI 010

SPPS

E24.54.815

ORDER	Ø d _{max}	a (mm)	b (mm)	c (mm)	Ød1 (mm)	Ød2 (mm)	e (mm)
SPPS 001	15 0.59	40 1.57	21 0.83	15 0.59	9 0.35	15 0.59	10 0.39
SPPS 002	25 0.98	56 2.20	32 1.26	20 0.79	11 0.43	18 0.71	13 0.51
SPPS 003	65 2.56	90 3.54	67 2.64	20 0.79	11 0.43	18 0.71	13 0.51
SPPS 004	95 3.74	140 5.51	110 4.33	20 0.79	11 0.43	18 0.71	13 0.51
SPPS 005	130 5.12	155 6.10	125 4.92	20 0.79	11 0.43	18 0.71	13 0.51

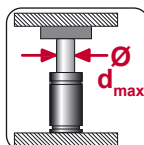
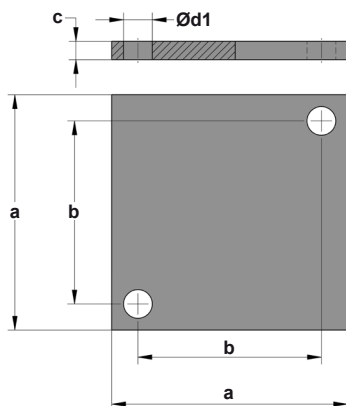

SPPS 001

STRIKER PLATES

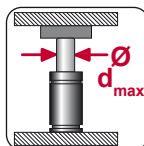
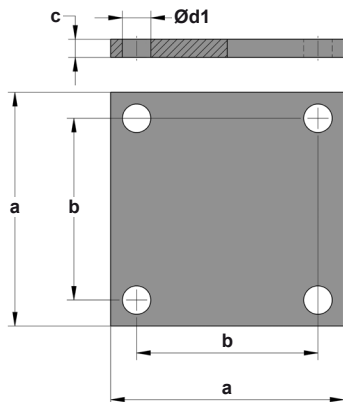
Hosed Systems

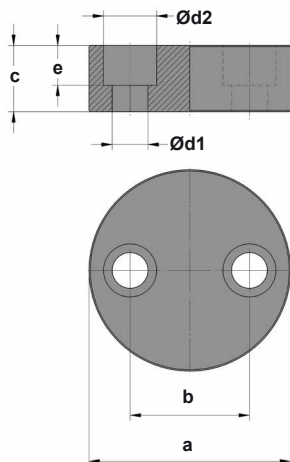
**AZOL
GAS** **SPRE****EM24.54.700**

ORDER	$\varnothing$ d_{max}	a mm inch	b mm inch	c mm inch	$\varnothing d1$ mm inch
SPRE 010	45 1.77	70 2.76	50 1.97	3 0.12	11 0.43
SPRE 011	60 2.36	90 3.54	70 2.76	3 0.12	11 0.43

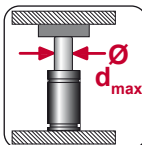
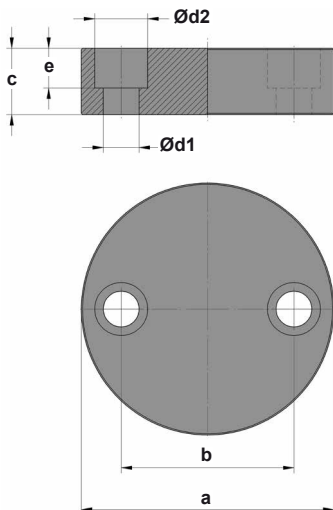
**SPRE****EM24.54.700**

ORDER	$\varnothing$ d_{max}	a mm inch	b mm inch	c mm inch	$\varnothing d1$ mm inch
SPRE 001	80 3.15	105 4.13	85 3.35	3 0.12	11 0.43
SPRE 002	95 3.74	125 4.92	105 4.13	3 0.12	11 0.43
SPRE 003	100 3.94	150 5.91	125 4.92	3 0.12	13 0.51
SPRE 004	130 5.12	190 7.48	165 6.50	3 0.12	13 0.51

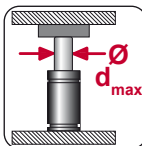


SPFO
WDX35-80-3576


ORDER	Ø d _{max}	a mm inch	b mm inch	c mm inch	Ød1 mm inch	Ød2 mm inch	e mm inch
SPFO 001	25 0.98	76 2.99	45 1.77	25 0.98	13.5 0.53	20 0.79	15 0.59
SPFO 002	25 0.98	76 2.99	45 1.77	28 1.10	13.5 0.53	20 0.79	18 0.71
SPFO 003	25 0.98	76 2.99	45 1.77	31 1.22	13.5 0.53	20 0.79	21 0.83
SPFO 004	25 0.98	76 2.99	45 1.77	34 1.34	13.5 0.53	20 0.79	24 0.94
SPFO 005	25 0.98	76 2.99	45 1.77	37 1.46	13.5 0.53	20 0.79	27 1.06
SPFO 006	25 0.98	76 2.99	45 1.77	40 1.57	13.5 0.53	20 0.79	30 1.18

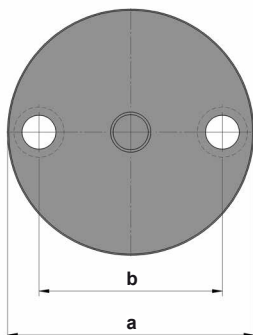
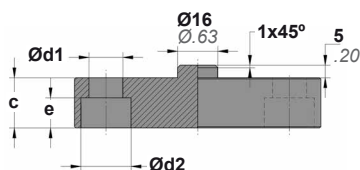

SPFO 001
SPFO
WDX35-80-3595


ORDER	Ø d _{max}	a mm inch	b mm inch	c mm inch	Ød1 mm inch	Ød2 mm inch	e mm inch
SPFO 010	45 1.77	95 3.74	65 2.56	25 0.98	13.5 0.53	20 0.79	15 0.59
SPFO 011	45 1.77	95 3.74	65 2.56	28 1.10	13.5 0.53	20 0.79	18 0.71
SPFO 012	45 1.77	95 3.74	65 2.56	31 1.22	13.5 0.53	20 0.79	21 0.83
SPFO 013	45 1.77	95 3.74	65 2.56	34 1.34	13.5 0.53	20 0.79	24 0.94
SPFO 014	45 1.77	95 3.74	65 2.56	37 1.46	13.5 0.53	20 0.79	27 1.06
SPFO 015	45 1.77	95 3.74	65 2.56	40 1.57	13.5 0.53	20 0.79	30 1.18

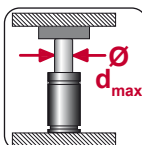
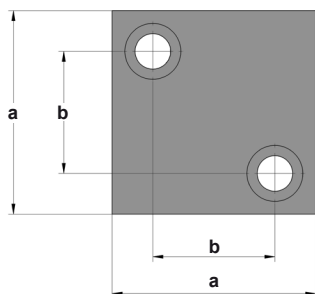
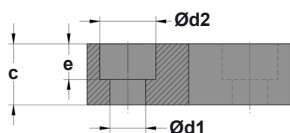

SPFO 010

STRIKER PLATES

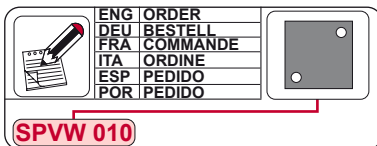
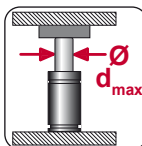
Hosed Systems

**AZOL
GAS** **SPVW****39D 847**

ORDER	Ø d _{max}	a mm inch	b mm inch	c mm inch	Ød1 mm inch	Ød2 mm inch	e mm inch
SPVW 001	50 1.97	98 3.86	73 2.87	20 0.79	13.5 0.53	20 0.79	12 0.47
SPVW 002	65 2.56	113 4.45	88 3.46	20 0.79	13.5 0.53	20 0.79	12 0.47
SPVW 003	80 3.15	128 5.04	103 4.06	20 0.79	13.5 0.53	20 0.79	12 0.47
SPVW 004	95 3.74	143 5.63	118 4.65	20 0.79	13.5 0.53	20 0.79	12 0.47

**SPVW 001****SPVW****39D 847**

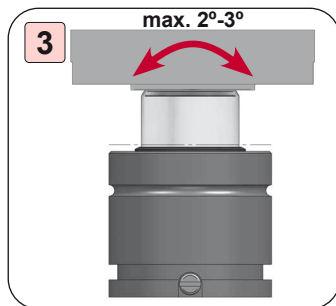
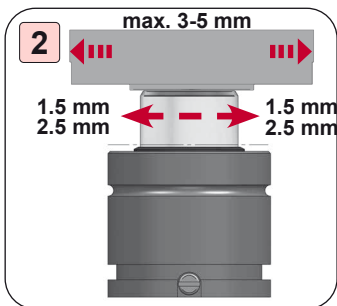
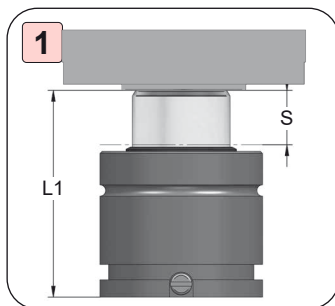
ORDER	Ø d _{max}	a mm inch	b mm inch	c mm inch	Ød1 mm inch	Ød2 mm inch	e mm inch
SPVW 010	20 0.79	40 1.57	24 0.94	12 0.47	7 0.28	11 0.43	7 0.28
SPVW 011	36 1.42	60 2.36	40 1.57	15 0.59	9 0.35	15 0.59	9 0.35
SPVW 013	80 3.15	100 3.94	74 2.91	20 0.79	11 0.43	18 0.71	11 0.43

**SPVW 010**

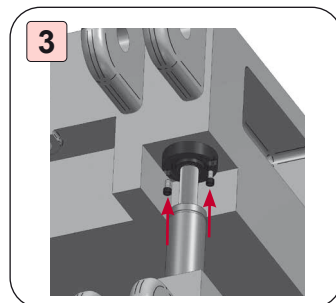
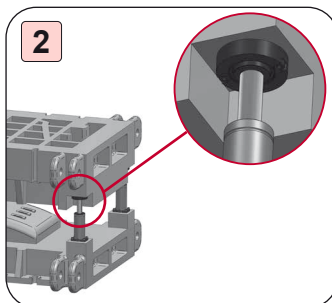
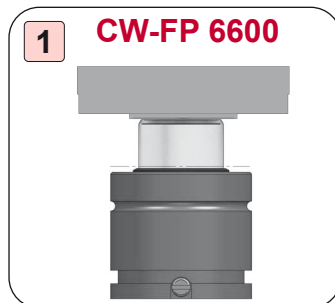


FP (FLEX PLATE)*Hosed Systems***AZOL
GAS** **TECHNICAL DATA**

- Range forces 1500 - 20000 daN.
- Fix with screws.
- Compact plate.
- Flexible support.

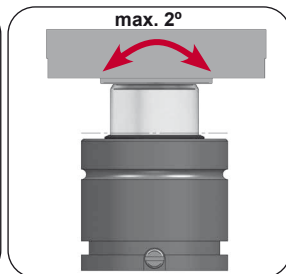
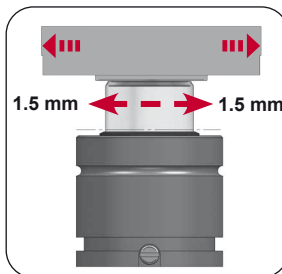
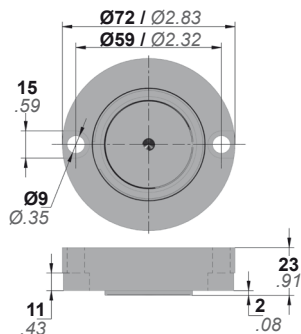
FLEX PLATE (SLIDING & SWINGING)

1. The use of FP system does not involve a variation of the dimensions of the gas spring, the location of the plate is inserted in the die itself.
2. Allows sideloads up to 3-5 mm.
3. Allows deviations from perpendicularity up to 2°-3°.

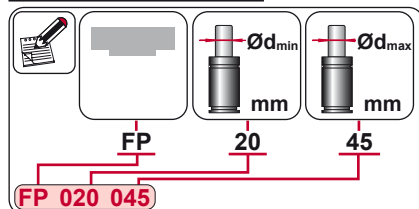
HOW TO ASSEMBLE

1. Check the gas spring model is suitable for use with the FP plate.
2. Verify that there is space enough to fit the FP plate into the tool.
3. Fix the FP plate to the die with screws.

FP 020 045



HOW TO ORDER



MODELS

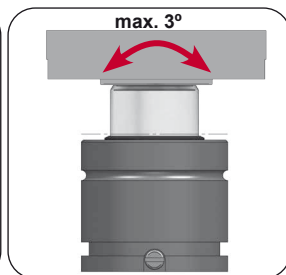
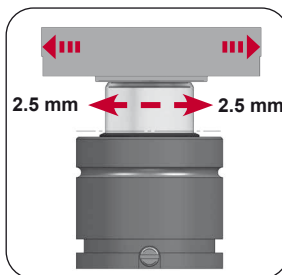
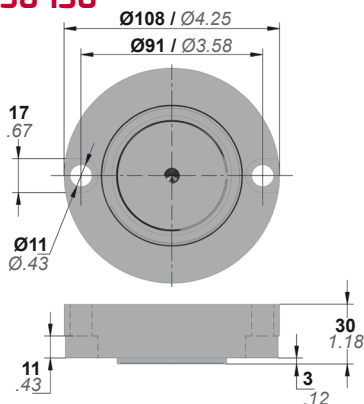
MODEL
AG 500
CD 500 V1
FD 500
KZ 500
CW 500 V1
CM 500 V2
CT 500
CK 500
CM 600 V1
CD 700
CT 700

MODEL
AG 750
GN 750
FD 750 V1
CK 750 V2
KZ 750 V1
CW 750 V1
CT 750
CD 1000 V1
CM 1000 V1
CT 1000 V1
KT 1000

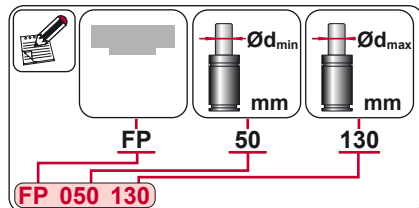
MODEL
KZ 1000 V1
CW 1000 V2
CK 1000 V3
AG 1500
CD 1500 V2
CM 1500 V2
GN 1500
FD 1500 V2
CK 1500 V2
CT 1500 V1
KT 1500

MODEL
KZ 1500
CW 1500 V1
CD 2400
KT 2400
KZ 2400
CW 2400 V1
CM 2500 V1
CK 2500 V1

FP 050 130



HOW TO ORDER

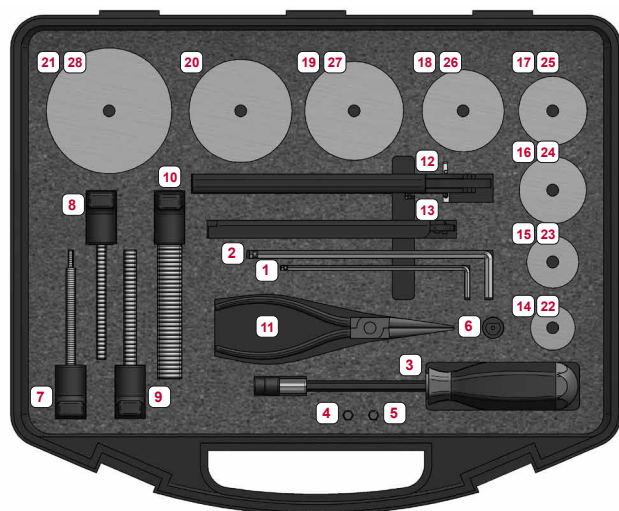


MODELS

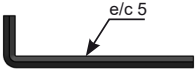
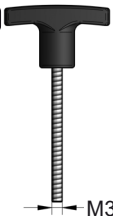
MODEL
CT 2500
AG 3000
GN 3000
FD 3000
CT 3000
CM 4000 V1
CK 4000 V1
CD 4200
KT 4200
KZ 4200

MODEL
CW 4200 V1
AG 5000
GN 5000
FD 5000 V1
CT 5000
CM 6500 V1
CD 6600
KZ 6600
KT 6600
CW 6600

MODEL
AG 7500
CD 9600
KT 9500
CW 9500
CM 10000
AG 10000
CW 11800
CD 18500
CW 20000

SERVICE EQUIPMENT*Hosed Systems***AZOL
GAS** **MR**

- | | |
|---------------------------------------|------------------------------|
| 1 DALL 3 (Tool Allen 3) | 16 PU 25 (Tool Ø 25) |
| 2 DALL 5 (Tool Allen 5) | 17 PU 28 (Tool Ø 28) |
| 3 DMNL (Tool) | 18 PU 36 (Tool Ø 36) |
| 4 ABXP (Adapter DIN 7757) | 19 PU 45 (Tool Ø 45) |
| 5 XTCP (Adapter XTC M6) | 20 PU 50 (Tool Ø 50) |
| 6 A 550 1/8-M6 (Draining Tool) | 21 PU 60 (Tool Ø 60) |
| 7 LM 3 (Tool M3) | 22 VTL 16 (Tool Ø 16) |
| 8 LM 6 (Tool M6) | 23 VTL 20 (Tool Ø 20) |
| 9 LM 8 (Tool M8) | 24 VTL 25 (Tool Ø 25) |
| 10 LM 16 (Tool M16) | 25 VTL 28 (Tool Ø 28) |
| 11 A 800 (Tool) | 26 VTL 36 (Tool Ø 36) |
| 12 LRP 1 (Tool) | 27 VTL 45 (Tool Ø 45) |
| 13 LRP 2 (Tool) | 28 VTL 60 (Tool Ø 60) |
| 14 PU 16 (Tool Ø 12-16) | |
| 15 PU 22 (Tool Ø 20-22) | |

1 	2 	3 	4 	5 
6 	7 	8 	9 	10 
11 	12 	13 	14 	15 
16 	17 	18 	19 	20 
21 	22 	23 	24 	25 
26 	27 	28 		

SERVICE EQUIPMENT

Hosed Systems

**AZOL
GAS** **PU 16****Ø 12-16****GAS SPRING SERIES**

ASP 250	KZ 350
ASP 300	CW 350 V1
AG 150	
AG 250	
CD 300 V1	
CM 300	
CM 350 V1	
FD 300	

PU 22**Ø 20-22****GAS SPRING SERIES**

ASP 500 V1	KZ 500
AG 500	CW 500 V1
CD 500 V1	
CM 500 V2	
CM 600 V1	
FD 500	
CK 500	
CT 500	

PU 25**Ø 25****GAS SPRING SERIES**

CD 700	CWC 750 V2
AG 750	
CD 700	
GN 750	
FD 750 V1	
CK 750 V2	
KZ 750 V1	
CW 750 V1	

PU 28**Ø 28****GAS SPRING SERIES**

CD 1000 V1	
CM 1000 V1	
CK 1000 V3	
CT 1000 V1	
KT 1000	
KZ 1000 V1	
CW 1000 V2	
CWC 1000 V2	

PU 36**Ø 36****GAS SPRING SERIES**

AG 1500	KZ 1500
CD 1500 V2	CW 1500 V1
CM 1500 V2	CWC 1500
GN 1500	
FD 1500 V2	
CK 1500 V2	
CT 1500 V1	
KT 1500	

PU 45**Ø 45****GAS SPRING SERIES**

CD 2400	
CM 2500 V1	
CK 2500 V1	
KT 2400	
KZ 2400	
CW 2400 V1	
CWC 2400 V2	

PU 50**Ø 50****GAS SPRING SERIES**

AG 3000	
GN 3000	
FD 3000	
CT 3000	
CTN 2500	
CTN 3000	

PU 60**Ø 60****GAS SPRING SERIES**

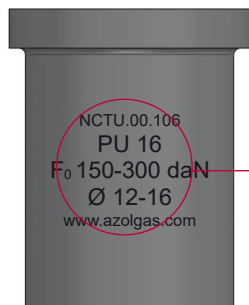
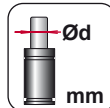
CD 4200	
CM 4000 V1	
CK 4000 V1	
KT 4200	
KZ 4200	
CW 4200 V1	

PU 75**Ø 65-75****GAS SPRING SERIES**

AG 5000	CW 6600
CD 6600	
CM 6500 V1	
GN 5000	
FD 5000 V1	
CT 5000	
KT 6600	
KZ 6600	

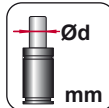
PU 95**Ø 80-95****GAS SPRING SERIES**

AG 7500	
AG 10000	
CD 9600	
CM 10000	
GN 7500	
CW 9500	
KT 9500	


PART NUMBER
INITIAL FORCE (F₀)
ROD DIAMETER


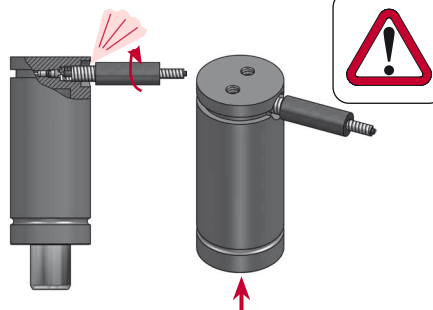
Example of how are marked the tools PU

- Part number
- Initial Force
- Piston rod diameter

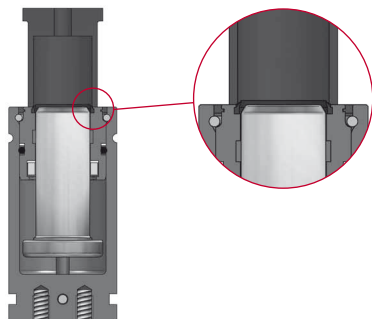
ROD DIAMETER

INITIAL FORCE (F₀)


Make the right choice of the PU tool for each gas spring series, according to:

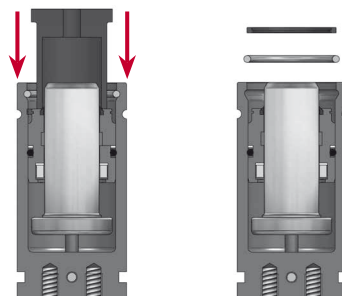
- Piston rod diameter
- Initial Force

1


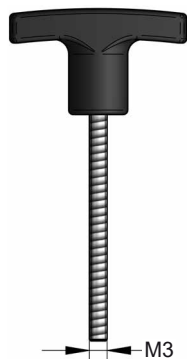
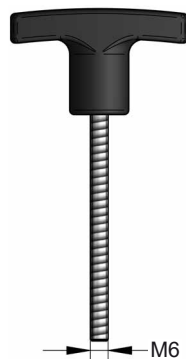
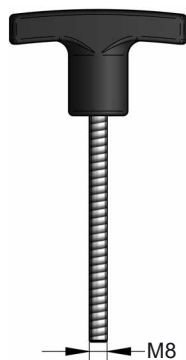
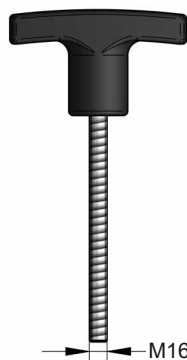
Before disassembly, make sure that the gas spring is fully drained, with the piston rod totally inserted.

2


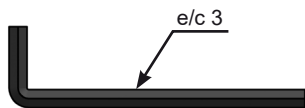
Set the corresponding PU tool on the top cartridge carefully to avoid any damage on the wiper.

3


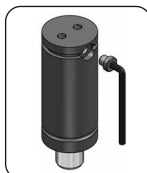
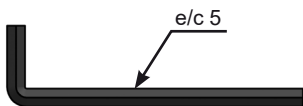
Push down the PU tool till the cartridge is down enough to let remove the locking ring.

SERVICE EQUIPMENT*Hosed Systems***AZOL**
GAS **LM 3****LM 6****LM 8****LM 16**

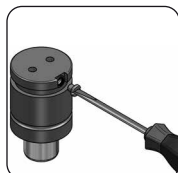
DALL 3



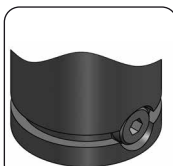
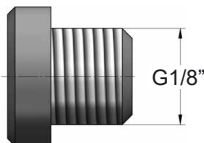
DALL 5



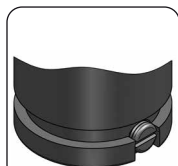
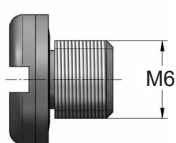
DPA 5



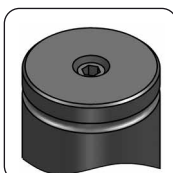
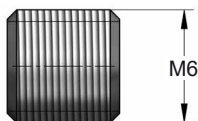
T 1/8



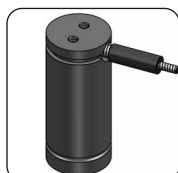
T M6



TR M6



A 550 1/8-M6



LRP 1

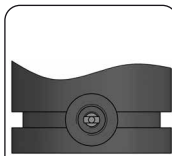
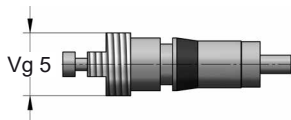
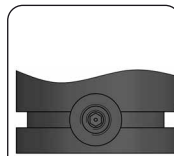
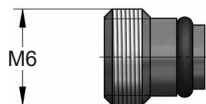


LRP 2



SERVICE EQUIPMENT

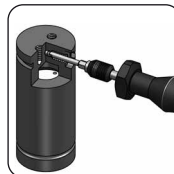
Hosed Systems

AZOL
GAS **DIN 7757****XTC-M6****A 800**

The tool A 800 is only intended to be used to remove the filling valve DIN 7757.

ALXTC

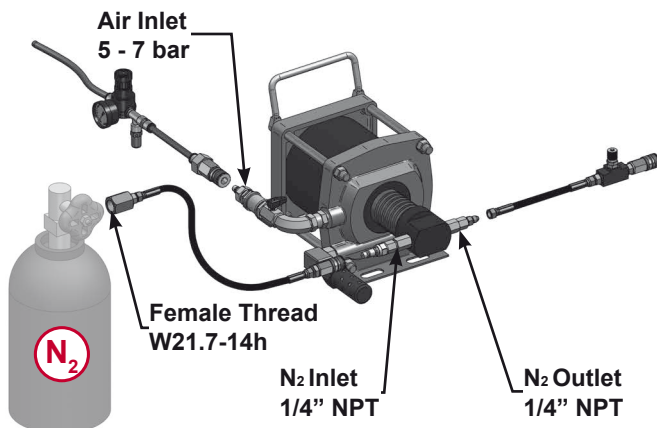
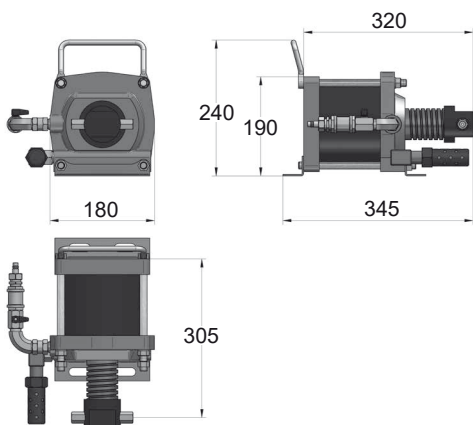
WARNING: ALXTC is only intended to be used to remove the valve XTC-M6 when it is damaged and it cannot be removed with the tool DMNL (XTCP).

DMNL**ABXP****XTCP****DDNM****ABXP****XTCP**



SERVICE EQUIPMENT

Hosed Systems

**AZOL
GAS** **DBNA****OPTIONS****1 - Hosed System****600-CP****2 - Self-contained****A 400 C****ADVANTAGES**

- Maximum safety.



- Easy boosting.



- Save costs.



- Increases productivity.

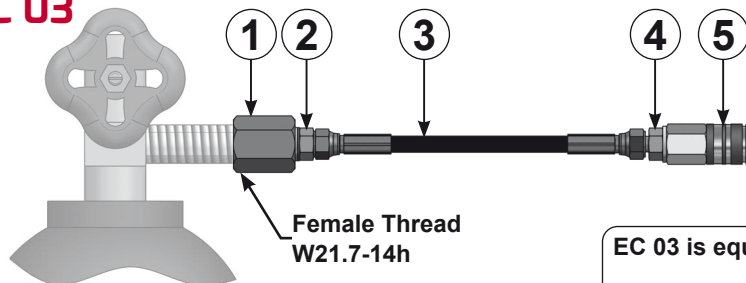
BOOSTER UNIT

DBNA gas booster enables to charge gas springs and manifold systems from your supply tank. The booster is a solution to low pressure supply tank to a minimum of 20 bar (when the tank pressure is lower than the gas springs filling pressure).

TECHNICAL DATA

Max. Outlet Pressure (N₂)	200 bar
Pneumatic pressure (Air)	5 - 7 bar
Pump ratio (N₂/Air)	30:1
Flow	2.8 l/min
Weight	12 Kg

EC 03



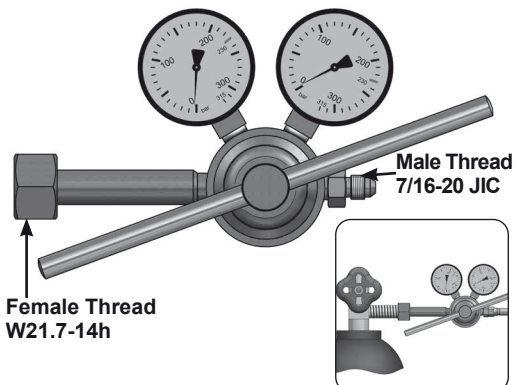
Only to be used
with a gauge



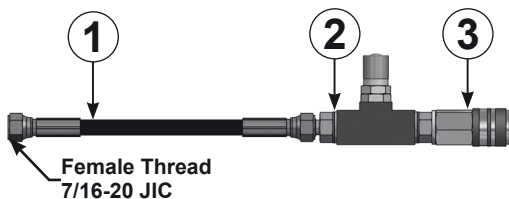
EC 03 is equipped with:

- 1-Adapter **AC 500**
- 2-Adapter **7RM2**
- 3-Hose **TFRR 3000**
- 4-Adapter **7RM4**
- 5-Female Quick Coupling **QCF 1/4**

LTH 600



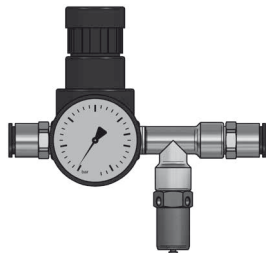
EC 38



EC 38 is equipped with:

- 1-Hose **TFRR 3000**
- 2-Shut off valve **EC VP**
- 3-Female Quick Coupling **QCF 1/4**

DBN-VS

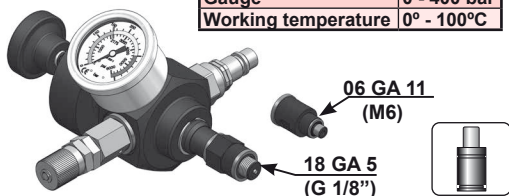


Safety device to prevent over-pressure.

DBN VS limits Air Inlet flow at a maximum of 6 bar.

A 400 C

TECHNICAL DATA	
Fluid	N ₂
Max pressure	210 bar
Gauge	0 - 400 bar
Working temperature	0° - 100°C

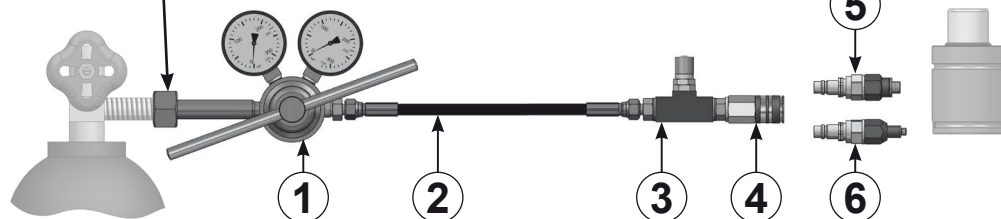


A 400 C Filling & Control Unit is used to:

- Verify the pressure
 - Fill and drain the pressure
 - Vary (up / down) the pressure
- Self-contained gas springs

SERVICE EQUIPMENT

Hosed Systems

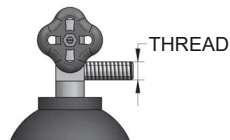
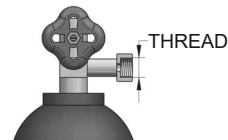
AZOL
GAS**EC 37**Female Thread
W21.7-14h**CHARGING UNIT**

The Charging Unit EC 37 let you:

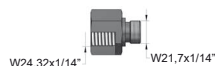
- Check the pressure from the nitrogen tank.
- Charging pressure to self-contained gas springs.
- Charging pressure to hosed systems.

EC 37 is equipped with:

- 1-Pressure regulator **LTH 600**
- 2-Hose **TFRR 3000**
- 3-Shut off valve **EC VP**
- 4-Female Quick Coupling **QCF 1/4**
- 5-Charging adapter **18 CG 1-Q (G1/8")**
- 6-Charging adapter **06 CG 2-Q (M6)**

**NITROGEN
TANK****MALE THREAD****NITROGEN
TANK****FEMALE THREAD****THREAD****TANK
ADAPTER**

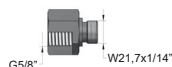
W24,32x1/14"

AC 210

G3/4"

AC 340

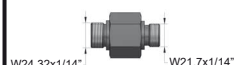
G5/8"

AC 585**THREAD****TANK
ADAPTER**

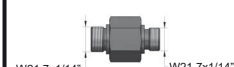
W22x1/14"

AC 220

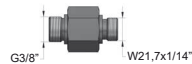
W24,32x1/14"

AC 230

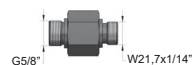
W21,7x1/14"

AC 270

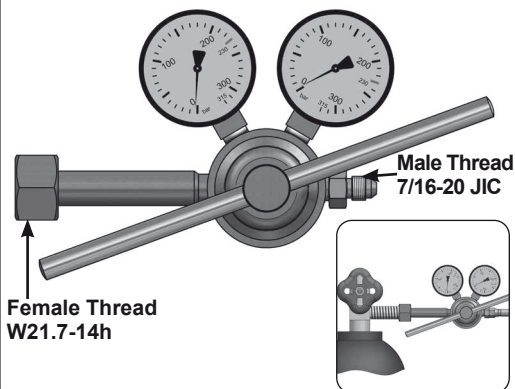
G3/8"

AC 380

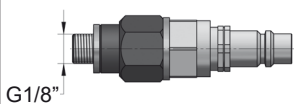
G5/8"

AC 580

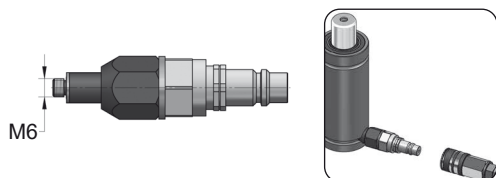
LTH 600



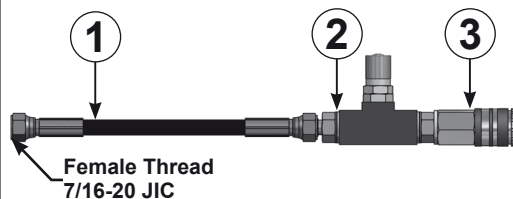
18 CG 1-Q



06 CG 2-Q



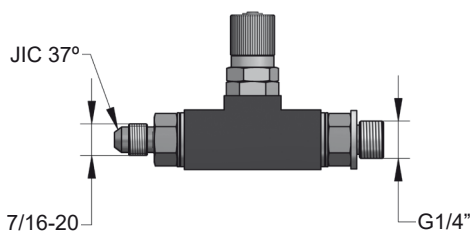
EC 38



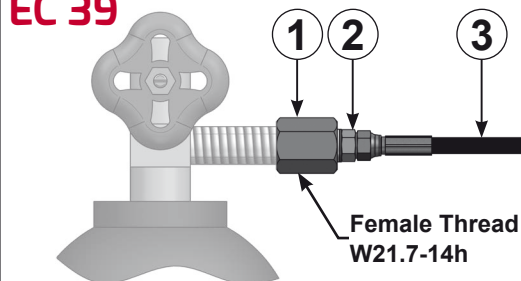
EC 38 is equipped with:

- 1-Hose **TFRR 3000**
- 2-Shut off valve **EC VP**
- 3-Female Quick Coupling **QCF 1/4**

EC VP



EC 39



EC 39 is equipped with:

- 1-Adapter **AC 500**
- 2-Adapter **7RM2**
- 3-Hose **TFRR 3000**
- 4-Shut off valve **EC VP**
- 5-Female Quick Coupling **QCF 1/4**



Only to be used
with a gauge

