







A WORLDWIDE LEADER IN THE FIELD OF HYDRAULIC FILTRATION EQUIPMENT.

Our company started life in 1964, when Bruno Pasotto decided to attempt to cater for the requests of a market still to be fully explored, with the study, design, development, production and marketing of a vast range of filters for hydraulic equipment, capable of satisfying the needs of manufacturers in all sectors. The quality of our products, our extreme competitiveness compared with major international producers and our constant activities of research, design and development has made us a worldwide leader in the field of hydraulic circuit filtering.

Present for over 50 years in the market, we have played a truly decisive role in defining our sector, and by now we are a group capable of controlling our entire chain of production, monitoring all manufacturing processes to guarantee superior quality standards and to provide concrete solutions for the rapidly evolving needs of customers and the market.

COMPLEMENTARY PRODUCTS





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41	MPT200/201 Series - Pressure transducer
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51	Weld flange
57	Test Equipment

Our work is based on a skillful interaction between advanced technology and fine workmanship, customizing products according to specific market requests, focusing strongly on innovation and quality, and following every step in the manufacturing of both standard and special products, fully respecting customer expectations.













Our customer-oriented philosophy, which enables us to satisfy all customer requests rapidly and with personalized products, makes us a dynamic and flexible enterprise.

The possibility of constantly controlling and monitoring the entire production process is essential to allow us to guarantee the quality of our products.

WORLDWIDE PRESENCE



Scan or click me!

Our foreign Branches enable us to offer a diversified range of products that allow us to successfully face the aggressive challenge of international competition, and also to maintain a stable presence at a local level.

The Group boasts **9 business branches**



TECHNOLOGY



AND PRODUCTION

Our high level of technological expertise means we can rely entirely on our own resources, without resorting to external providers. This in turn enables us to satisfy a growing number of customer requests, also exploiting our constantly updated range of machines and equipment, featuring fully-automated workstations capable of 24-hour production.

STATE STATE AND















SUCTION FILTERS

Mounting:

- Tank immersed
- In-Line
- In tank with shut off valve
- In tank with flooded suction

RETURN FILTERS

Mounting:

- In-Line
- Tank top
- In single and duplex designs

RETURN / SUCTION FILTERS

Mounting:

- In-Line
- Tank top

SPIN-ON FILTERS

Mounting:

- In-Line
- Tank top

LOW & MEDIUM PRESSURE FILTERS

Mounting:

- In-Line
- Parallel manifold version
- In single and duplex designs

HIGH PRESSURE FILTERS

Mounting:

- In-Line
- Manifold
- In single
- and duplex designs

PRODUCT RANGE

MP Filtri can offer a vast and articulated range of products for the global market, suitable for all industrial sectors using hydraulic equipment.

This includes filters (suction, return, return/suction, spin-on, pressure, stainless steel pressure, ATEX filters) and structural components (motor/pump bell-housings, transmission couplings, damping rings, foot brackets, aluminium tanks, cleaning covers).

We can provide all the skills and solutions required by the modern hydraulics industry to monitor contamination levels and other fluid conditions.

Mobile filtration units and a full range of accessories allow us to supply everything necessary for a complete service in the hydraulic circuits.





Pressure from 320 bar up to 1000 bar

- Mounting:
- In-Line **Nanifold**
- In single and duplex designs



FILTERS FOR POTENTIALLY **EXPLOSIVE ATMOSPHERE**

Mounting:

- In-Line

- Fully calibrated using relevant
- A wide range of variants to support fluid types and
- Mobile Flltration Units with flow rates from 15 l/min up to 200 I/min



CONTAMINATION CONTROL SOLUTIONS

- Off-line, in-line particle counters
- Off-line bottle sampling products
- ISO standards
- communication protocols



POWER TRANSMISSION **PRODUCTS**

- Aluminium bell-housings for motors from 0.12 kW to 400 kW
- Couplings in Aluminium Cast Iron - Steel
- Damping rings
- Foot bracket
- Aluminium tanks
- Cleaning covers



TANK ACCESSORIES

- Oil filler and air breather plugs
- Optical and electrical level gauges
- Pressure gauge valve selectors
- Pipe fixing brackets
- Pressure gauges



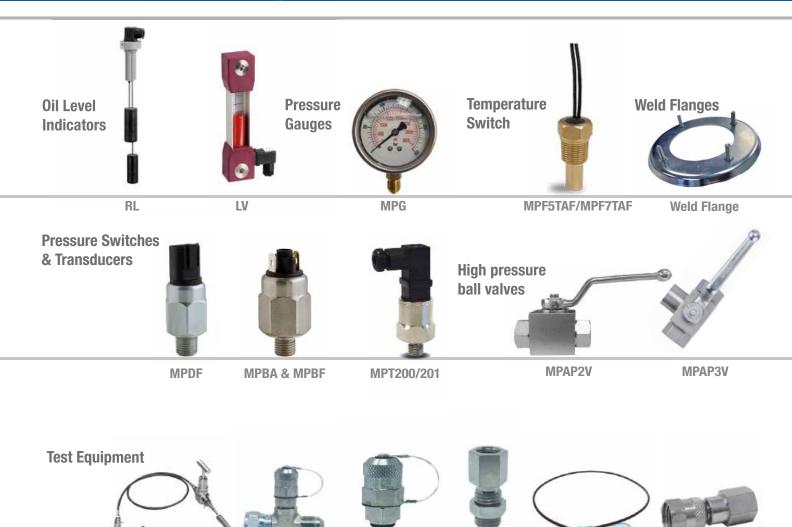
COMPLEMENTARY PRODUCTS

- Electro-magnetic fluid level indicators
- Visual level indicators
- High pressure
- ball valves - Pressure gauges
- Pressure switch
- Pressure Transducer
- Temperature switch
- Weld Flange

MP Filtri offers a comprehensive range of instrumentation products as well as high pressure ball valves, float level switches, level indicators, visual flowmeters, flow switches, pressure switches, thermostatic plugs, temperature transmitters, pressure gauges.



Complementary Products



RL Series - Electro-magnetic fluid level indicators	page	13
LV Series - Visual level indicators		19
MPAP2V & MPAP3V Series - High pressure ball valves		23
MPG Series - Pressure gauges		29
MPDF Series - Pressure switch		33
MPBA & MPBF Series - Pressure switch		37
MPT200/201 Series - Pressure Transducer		41
MPF5TAF & MPF7TAF Series - Temperature switch		47
Weld Flange		51
Test Equipment		57

HSP2000

HSP3000

HSP6000

HSP690

HSP1040



HSP7000





RL Series

Electro-magnetic fluid level indicators



Technical data

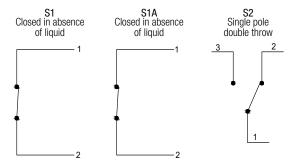
Electrical Oil Level Indicators

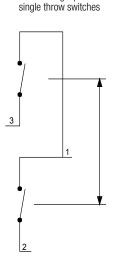
Electro Magnetic Float Level Switches

Rapid level 'RL' Series can be single float, double float or side mounted single float types. It is specially designed to be rugged, compact and lightweight. Offering flanged and threaded mounting options. Complete range of single, double and multiple switching systems. Trouble free reed switches housed in a totally sealed unit mounted securely to the reservoir. DIN 43650 Connector as standard and IP635 rated.

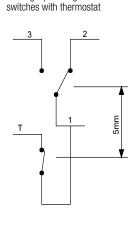
Available features:

- Ease of Use: The control rod is cut to length "on site" with no special tools required
- Variety of Applications: The float carries no magnets and therefore can be used with a wide range of fluids
- Electrically Safe: No electrical contact with fluid. Electrically Safe: No electrical contact with fluid.





S3 Dual single pole



\$4 Dual single pole single throw

RL/G1 SERIES

- Single float type
- NPT or Flange Mount

RL/L SERIES

- Side mounted type
- For wiring and switching circuits refer to RL/G1 series
- Distance between 1st & 2nd signal is not fixed, as the length of the control rod increases, distance between the two signals increases

RL/G2 SERIES

- Double float type
- Each rod activates a separate switch
- Each switch can be wired with S1, S2 configuration allowing a wide variety of signal options. Reinforced control rods available for applications with turbulence
- Wiring circuits and switching option below
- RL/G2-F3-S2-S2 incorporates sealed box connector (no DIN 43650 connector)

Specification

- Glass reinforced nylon housing
- DIN 43650 connector
- Stainless steel rod
- Delrin Float with silicone security joint
- 1" NPT Thread for single float type
- 1-1/4" NPT Thread for dual float type
- Flange (complete with gasket & screws) available for all types
- IP 65 rated
- RL/G2-F3-S2-S2 incorporates sealed box connector (no DIN 43650 connector)

Temperature

From -20 °F to + 210 °F

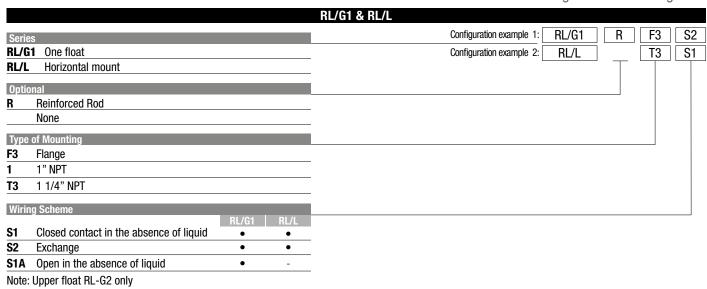
Reed switch detail (resistive load)

S1 & S2 Type Max. Current 3A DC Power 60W AC Power 60VA Volitage 250V





Designation & Ordering code

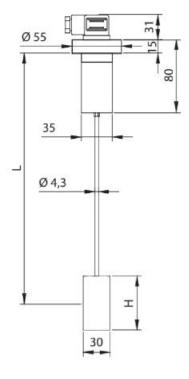


		RL/G2							
Serie	S		Configuration example:	RL/G2	R	F3	S2	2	S2
	2 Two floats	_							
Optio	nal								
R	Reinforced Rod								
	None	_							
Туре	of Mounting								
F3	Flange								
1	1" NPT	_							
T3	1 1/4" NPT	_							
Wirir	g Scheme (Lower Float)								
S1	Closed contact in the absence of liquid								
S2	Exchange								
S1A	Closed in the absence of liquid	<u> </u>							
Wirir	g Scheme (Upper Float)								
S1	Closed contact in the absence of liquid								
S2	Exchange	_							
S1A	Closed in the absence of liquid								

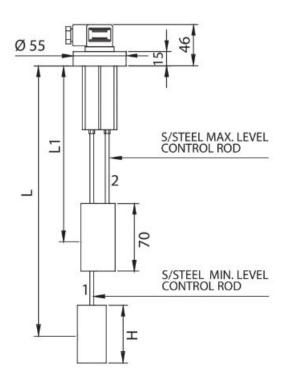


Dimensions

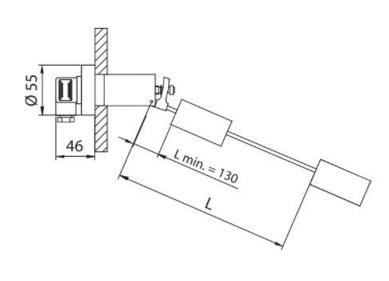
RL/G-1



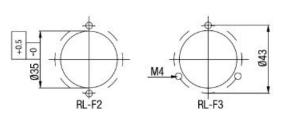
RL/G-2



RL/L



Holes on the tank



k



Connection rod cutting table

Control value L= (mm) Rod cutting for min, level A= (mm) Control value L= (mm) Rod cuttin for max lev B= (mm) 90 116 H = 35 100 116 H = 45 110 116 H = 55 120 116 140 137 160 158 180 179 90 62 H1 = 38 200 200 100 62 H1 = 48 220 221 120 131 240 242 140 152 260 263 160 173 280 284 180 194 300 305 200 215 320 326 220 236 340 347 240 257 360 368 260 278 380 389 280 299 400 410 300 320 420 431 320 341 440 452 340 362 <t< th=""><th>ěl</th></t<>	ěl
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420 431 320 341 440 452 340 362	
440 452 340 362	
460 473 360 383	
480 494 380 404	
500 515 400 425	
520 511 420 421	
540 532 440 442 560 553 460 463	
560 553 460 463 580 574 480 484	
600 595 500 505	
620 616 520 526	
640 637 540 547	
660 658 560 568	
680 679 580 589	
700 700 600 610	
720 721 620 631	
740 742 640 652	
760 763 660 673	
780 784 680 694	
800 805 700 715	
820 826 720 736	
840 847 740 757	
860 868 760 778	
880 889 780 799	
900 910 800 820	
920 931 820 841	
940 952 840 862	
960 973 860 883	
980 994 880 904	
1000 1015 900 925	

L - L1 = 100 mm A - B = 90 mm

H = 35 (L = 90 mm)

H = 45 (L = 100 mm)

H = 55 (L = 110 mm)

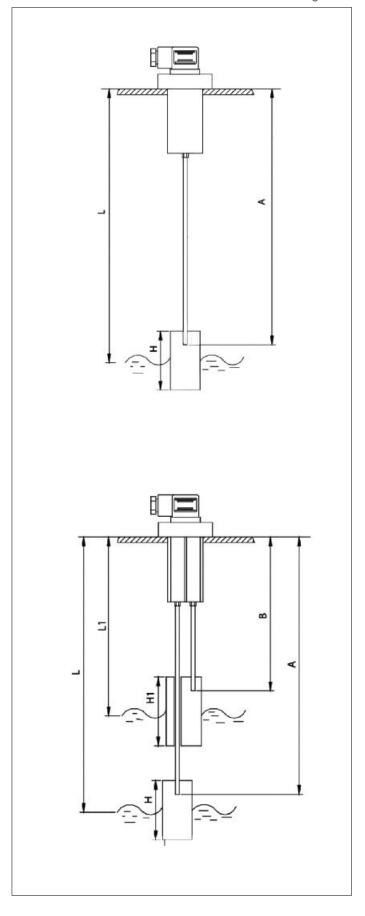
H = 60 (L = 120 - 500 mm)

H = 90 (L = 501 - 1000 mm)

H1 = 35 (L1 = 90 mm)

H1 = 45 (L1 = 100 mm)

H1 = 70 (L1 = 120 - 1000 mm)







LV Series

Visual level indicators



Technical data

Electrical Oil Level Indicators

Visual level indicators

Multi-control range visual level gauges. The visual level gauges allow the liquid level to be checked in a clear and precise way at any time. The principle used is that of communicating vessels: the liquid goes through the level gauge by means of hollow screws, showing the user the each point inside the tank.

The level gauges can be equipped with a tap that stops the flow from the tank to the gauge.

C/C distances of 5-19.7 inch are fully interchangeable with all major level gauges. 'U' protection screen is normally fitted in order to ensure visibility on the front part of the level gauge, but if necessary, it can be turned 90° to deliver visibility on the right or left.

Minimum level signal which can be 'Normally Open, Normally Closed, or Exchange' contacts upon request

Available features:

- Ease of Use: The visual gauges allow the liquid level to be checked clearly at any time
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple sizes and distances meet the needs for all customers and applications.

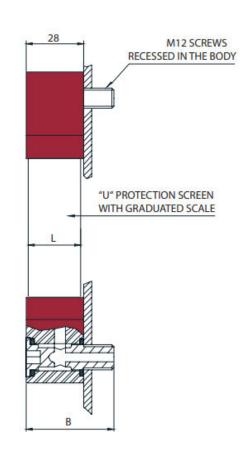
LV SERIES

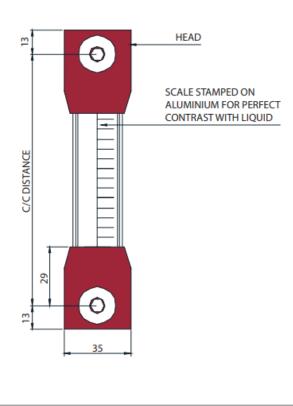
- Side mounted that can be turned to 90° to obtain visibility if needed
- 'U' protection screen with graduated scale fitted for visibility from all angles
- Maximum Tightening Torque: 10Nm
- Maximum pressure: 35 Bar
- M10 or M12 Screws recessed in the body

Designation & Ordering code

CO	MPLETE VISUAL OIL LEVEL INDICATORS
Series	Configuration example : LV 20 T A P M10 S01
LV	
Size	
10 20 30	
Thermometer	
S Without thermometer	
T With thermometer	
Seals	
A NBR	
V FPM	
Cover material	
P Polyamide	
Connections	
M10 M10	
M12 M12	
U38 3/8" UNC	Execution
U12 1/2" UNC	S01 Tag MP Filtri, with nuts
	S02 Tag MP Filtri, without nuts

Dimensions









MPAP2V & MPAP3V Series

High Pressure Ball Valves



MPAP2V GENERAL INFORMATION

Technical data

Ball valves

High Pressure Ball Valves

MP Filtri USA offers 2-way and 3-way steel high pressure ball valves

MPAP2V

MPAP3V

- Steel body
- -Steel body - Zinc plated
- Zinc platedNo Leakage
- Valve can turn under pressure
- Valve can turn under maximum pressure
- Counter pressure to closed port

cannot be applied

Standard Features

- Steel body
- Zinc plated
- No leakage
- Valve can turn under maximum pressure

Optional Features

- Chromium plated
- Green zinc plated
- Special hand lever
- Metric thread
- Male thread
- DIN 2353 fitting port thread

Applications

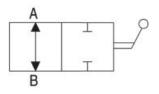
- Ball valves are used to open or close flow
- Can be opened or closed even under maximum pressure without allowing leakage

Installation

- Pressure flow and actuator are connected with valve ports

Operation

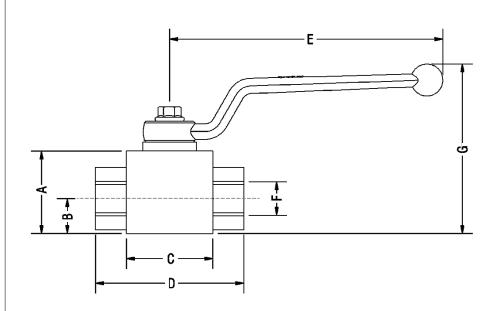
- Oil flows through valve when hand lever is in Pos. 1
- Flow stops when hand lever is in Pos. 2

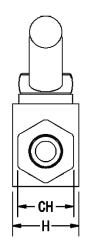


Designation & Ordering code

		COMPLE	TE BALL VALVE			
Series				Configuration examp	le 1 : MPAP2V	03
MPAP2V	2 way ball valve			Configuration examp	le 2 : MPAP2V	015
Valve size						
valve Size	NPT	SAE				
005	-	7/16" - 20 (SAE - 4)				
01	1/4"	-				
015	-	9/16" - 18 (SAE - 6)				
02	3/8"	3/4" - 16 (SAE - 8)				
03	1/2"	7/8" - 14 (SAE - 10)				
04	3/4"	1 1/16" - 12 (SAE - 12)				
05	1"	1 5/6" - 12 (SAE - 16)				
06	1 1/4"	1 5/8" - 12 (SAE - 20)				
07	1 1/2"	1 7/8" - 12 (SAE - 24)				
Connection t	vno.					
	ad NPT					
-	ad SAE					
				Exec		
				<u>P01</u>	MP Filtri Stan	dard
				Pxx	Custom	

Dimensions





Valve size	A	В	С	D	E	F (NPT)	F (SAE)	G	Н	Ch
005	32	13	37	69	120	-	SAE 4	72.5	28	22
01	32	13	37	69	120	1/4"	-	72.5	28	22
015	40	17	42	72	120	-	SAE 6	80.5	32	27
02	40	17	48	83	120	3/8"	SAE 8	80.5	35	30
03	46	19	47	83	155	1/2"	SAE 10	102	38	32
04	57	24	60	95	170	3/4"	SAE 12	118	48	41
05	64	28.5	65	113	170	1"	SAE 16	125	57	50
06	64	28.5	65	120	170	1 - 1/4" / 1-1/2"	SAE 20	125	60	55
07	64	28,5	65	130	170	1 - 1/2"	SAE 24	125	60	60

Dimension	005	01	015	02	03	04	05	06	07
Max Pressure (PSI)	7252	7252	7252	7252	7252	5076	42.27	4061	4061
Max Flow (gpm)	7.93	7.63	7.93	13.21	21.13	31.70	5076	42.27	42.27
Nominal Diameter (mm)	6	6	6	10	13	20	25	25	25

MPAP3V general information

Technical data

Ball valves

High Pressure Ball Valves

High performance ball valve that ensures efficient fluid flow, safeguarding critical components and prolonging equipment lifespan while being protected from all materials due to it's stainless steel body

Standard Features

- Steel body
- Zinc plated
- Valve can turn under maximum pressure
- Counter pressure to closed port cannot be applied

Optional Features

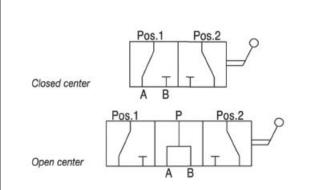
- Chromium plated
- Green zinc plated
- Special hand lever
- Metric thread
- Male thread
- DIN 2353 fitting port thread

Applications

- Connect single inlet flow into two outlet flows or combine two inlet flows into single outlet flow
- Control a single acting actuator

Operation

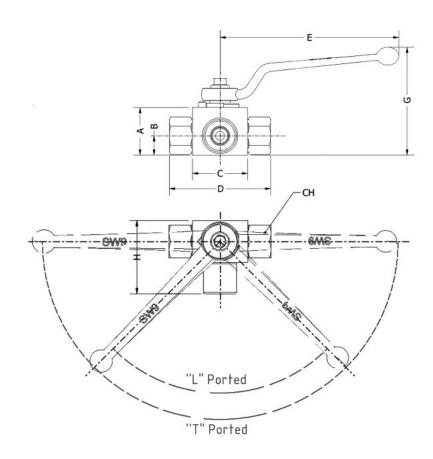
- Hand lever is Pos. 1 allows flow to port A
- Hand lever is Pos. 2 allows flow to port B
- L type (closed center) when hand lever is in mid position all ports are partially closed (hand lever only turns 90°)
- T type (open center) when hand lever is in mid position all ports are completely open (hand lever turns 180°)



Designation & Ordering code

			C	OMPLETE BALI	_ VALVE						
Serie	es .				Configuration example	1: N	IPAP3V	03	N	Т	
MPA		l valve		_	Configuration example	2: N	IPAP3V	015	S	L	
Valve	e size										
		NPT	SAE								
005		-	7/16" - 20 (SAE - 4)								
01		1/4"	=								
015		-	9/16" - 18 (SAE - 6)								
02		3/8"	3/4" - 16 (SAE - 8)	_							
03		1/2"	7/8" - 14 (SAE - 10)	_							
04		3/4"	1 1/16" - 12 (SAE - 12)	_							
05		1"	1 5/6" - 12 (SAE - 16)	_							
06		1 1/4"	1 5/8" - 12 (SAE - 20)	_							
Conn	ection type										
V	Thread NPT			•							
S	Thread SAE			_							
-				_							
Hvdr	aulic scheme										
Γ	Open center										
L	Close center			_		E					_
				_		P01	ution MD Cil+	ri Standa	ırd		
									ııu		
						Рхх	Cu	ston	stom	stom	stom

Dimensions



Valve size	A	В	С	D	E	F (NPT)	F (SAE)	G	Н	Ch
005	32	13	37	69	120	-	SAE 4	72.5	49	22
01	32	13	37	69	120	1/4"	-	72.5	49	22
015	40	17	42	72	120	-	SAE 6	80.5	52	27
02	40	17	48	83	120	3/8"	SAE 8	80.5	57.5	30
03	40	17	48	83	120	1/2"	SAE 10	80.5	57,5	30
04	57	24	60	95	170	3/4"	SAE 12	118	73	41
05	64	28.5	65	113	170	1"	SAE 16	125	85	50
06	64	28.5	65	120	170	1" - 1/4"	SAE 20	125	90	55

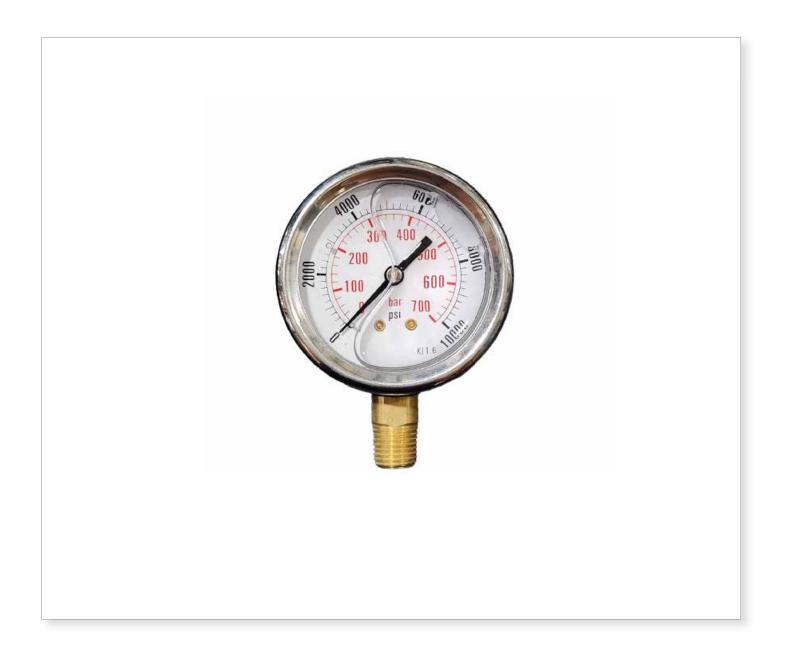
Dimension	005	01	015	02	03	04	05	06
Max Pressure (PSI)	7252	7252	7252	7252	7252	5076	42.27	4061
Max Flow (gpm)	7.93	7.63	7.93	13.21	21.13	31.70	5076	42.27
Nominal Diameter (mm)	6	6	10	13	13	20	25	25





MPG Series

Pressure Gauges



Technical data

Clogging indicators

Pressure gauges

MP Filtri USA offers a choice of accurate, high-visibility pressure gauges.

Liquid (Glycerine) Filled Gauge Stem and Back Mount

Scale: Concentric 270° - PSI/BAR

Specification

- Connection: Bottom (Model A); Center back (Model D)
- Standard Threads: 1/4" NPT and SAE -4
- Accuracy: 1.5% of span
- Temperature Range: Between -20° to +80°C
- Working Range: Steady: 3/4 scale valve

Fluctuating: 2/3 scale valve Short Time: full scale

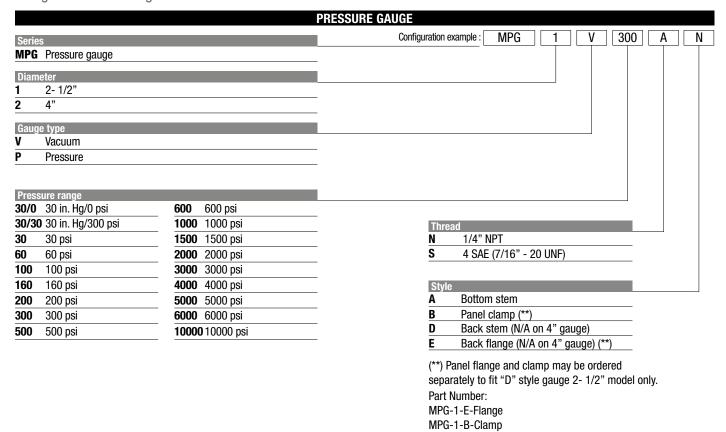
- Protection Degree: IP 65
- Scale: Concentric 270° PSI/Bar

Materials

Socket: Copper Alloy

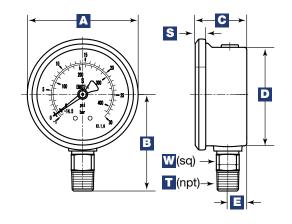
- Case: Stainless Steel
- Flange and Ring Stainless Steel (Model E)
- Ring: Stainless Steel (Model B)
- Bourdon Tube: Circular in copper alloy up to 600 PSI, Helical in copper alloy above 900 PSI
- Movement: Copper Alloy
- Window: Polycarbonate, Acrylic 4"
- Dial: White ABS, black scale
- Mounting: Model E: Front flange with 3 mounting holes Model B: With special ring and back clamp

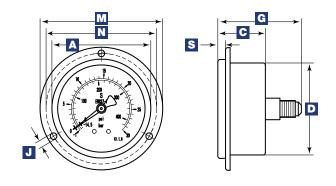
Designation & Ordering code





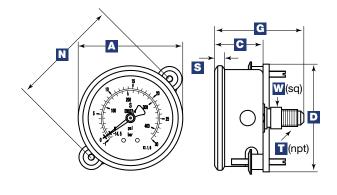
Dimensions

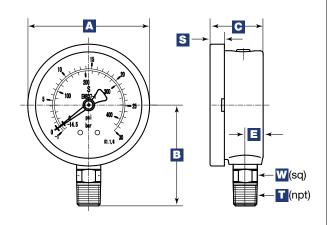




2-1/2" MPG Model A

2-1/2" MPG Model D & E





2-1/2" MPG Model B

4" MPG Model A

	Size	Weight	Key	A	В	C	D	E	G	н	J	M	N	S	Т	w
4	2- 1/2"	0.36 lbs + 0.06 lbs if filled	mm/in.	63/2.5	54/2.13	32/1.26	62/2.44	13/0.51	54/2.13	N/A	3.6/0.14	85/3.35	75/2.95	6.5/0.26	1/4 in.	14/0.55
	4"	1.10 lbs + 0.66 lbs if filled	mm/in.	100/4	82/3.41	48/1.89	100/3.99	15.5/0.61	79.5/3.13	30/1.18	4.8/0.19	12/5.2	116/4.57	8/0.31	1/2 in.	12/0.87

 $\label{eq:ABC} A = \mbox{Nominal Size} \\ T = \mbox{SAE -4 (7/16 -20 UNF) Connection, Supplied with Viton o-ring, hex nut, and washer}$





MPDF Series

OEM Integrated Pressure Switch



MPDF GENERALINFORMATION

Technical data

Clogging indicators

OEM Integrated Pressure Switch

One of the smallest switches in the market offering an integrated Deutsch receptacle. Plug in a mating DT04-2P plug for an instant solution to the constant water spray present in mobile applications.

Standard Features

Silver Nickel alloy contacts

- Direct blade contact
- Diaphragm/Piston combination
- Integrated Deutsch receptacle
- Gold contact available

Applications

- Mobile equipment
- Street sweepers
- Cement trucks
- Aerial booms

Materials

Diaphragm: standard Nitrile (optional Viton, EPDM, HNBR)

Housing: Steel, Zinc-plated

Specification

Electrical: 100 VA - 42 VDC Switch type: blade contact

Protection: IP67

Electrical connector: DT04-P2

Mechanical range: 1,000,000 cycles at 1000 PSI (69 bar)

Pressure range

From 1.5 to 2175 PSI (from 0.1 to 150 bar) Maximum overpressure: 9000 PSI (600 bar)

Temperature range

From -20°F to +180 °F (from -29 °C to +82 °C) Nitrile

Weight

0.15 lbs (0.06 kg)

Available settings

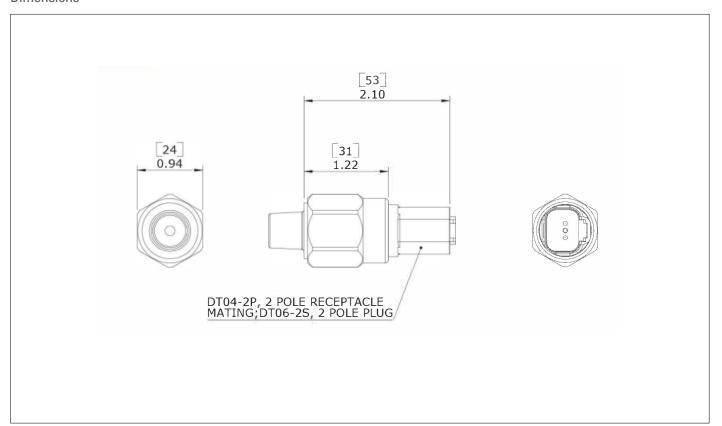
 $22 \text{ psi} \pm 10\%$

 $35 \text{ psi} \pm 10\%$

 $40 \text{ psi} \pm 10\%$

*Other settings on Request, MOQ may apply

Dimensions





Designation & Ordering code

		Λ	MPDF							
Series			Config	uration exampl	e1: MPDF	3	2M	Α	DR	1
MPDF	OEM integrated pressure switch	. г	Config	uration exampl	e 2: MPDF	35R	M10	В	DR	2
Pressi	ure selection									
	able range: psi range bar range	- 1 1	Set point	Direction	bar range					
1	1.5 - 14.5		XXX	R	PSI Rising pres					
2	14.5 - 145 1.0 - 10		XXX	F	PSI Falling pre	ssure				
3	50 - 350 3.4 - 24		XXX	BR	BAR Rising pre	essure				
4	250 - 1000 17 - 69		XXX	BF	BAR Falling pr	essure				
5	500 - 2175 34 - 150									
Threa	d option	I								
2M	1/8" NPT male									
4M	1/4" NPT male									
2G	1/8" BSPP male - G1/8									
4G	1/4" BSPP male - G1/4	-								
4S	7/16" - 20 SAE male with 0-ring seal									
6S	9/16" - 18 SAE male with 0-ring seal	•								
Circui	*	ı								
A	SPST (normally open)									
В	SPST (normally closed)	-								
Florida		I								
DR	ical termination Integrated Deutsch Receptacle - Mates with DT06-2S									
	<u> </u>									
Option										
1	FPM Diaphragm									
2	EPDM Diaphragm HNBR Diaphragm									
7	Gold contact 0.4 VA - 30 VDC	-								
20	Seal adjustment screw									

Wiring code						
Contact	Deutsch receptacle					
Common	PIN A					
Normally closed	PIN B					
Normally open	PIN B					





MPBA & MPBF Series

Compact OEM Pressure Switch



MPBA & MPBF GENERALINFORMATION

Technical data

Clogging indicators

Compact OEM Pressure Switch

A miniature pressure switch with high proof pressures ideal for mobile and other harsh applications. It is a well sealed design that offers ingress protection to IP68 when paired with the flying lead option. It is offered with a variety of mechanical and electrical terminations for easy integration.

Standard Features

- Silver Nickel alloy contacts
- Direct blade contact
- Diaphragm/Piston combination
- High ingress protection
- Compact body
- Gold contact available

Applications

- Industrial tools
- Garbage trucks
- Brake pressure switch

Materials

Diaphragm: standard Nitrile (optional Viton, EPDM, HNBR) Housing: zinc plated steel (optional stainless steel)

Specification

Electrical: 100 VA - 42 VDC Switch type: blade contact

Protection: exposed terminals - IP00 (IP68 available)
Mechanical range: 1,000,000 cycles at 1000 PSI (69 bar)
Repeatibility: +/- 3% of full set point range at 68 °F (20 °C)

+/- 1.5 psi

Pressure range

Model 1: from 1.5 to 20 psi (from 0.1 to 1.4 bar)

Model 2: from 20 to 120 psi (from 1.4 to 8.2 bar)

Model 3: from 90 to 250 psi (from 6.2 to 1.7 bar)

Model 4: from 250 to 950 psi (from 17 to 54 bar)

Model 5: from 700 to 1900 psi (from 48 to 131 bar)

Model 6: from 1000 to 3000 psi (from 69 to 206 bar)

Maximum overpressure: 9000 PSI (600 bar)

Temperature range

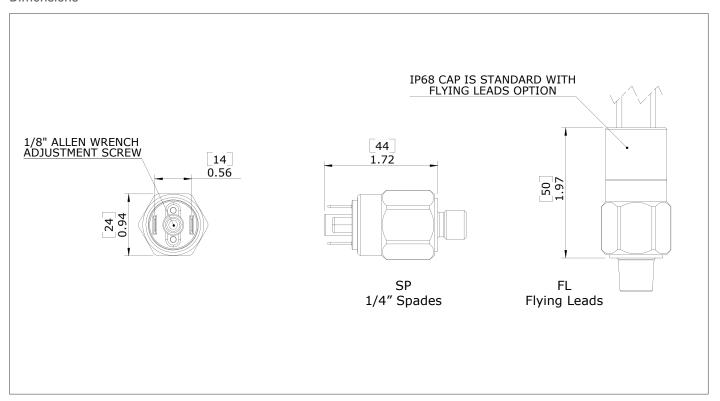
From -20°F to +180 °F (from -29 °C to +82 °C) Nitrile

Available settings

22 psi \pm 10% 35 psi \pm 10%

*Other Settings on request, MOQ may apply

Dimensions



Designation & Ordering code

			MP	BA & MPBF							
Series				Confi	guration examp	le 1 : MPBA	2	2M	В	SP	1
MPBA			_		guration examp		35F	2M	В	SP	1
MPBF					J	51	00.]	Ť
					D: 1:						
	ure selection			Set point XXX	Direction R	PSI Rising pro					
Adjusta	able range: psi range	bar range		XXX		PSI Falling pr					
1	1.5 - 20	0.1 - 1.4		XXX	BR	BAR Rising p					
2	20 - 120	1.4 - 8.2		XXX	BF	BAR Falling p					
3	90 - 250	6.2 - 17			ы	DAIT I alling p	i cooui c				
4	250 - 950	17 - 65									
5	700 - 1900	48 - 131									
6	1000 - 3000	69 - 206									
Threa	d option										
2M	1/8" NPT male										
4m	1/4" NPT male										
2G	1/8" BSPP male - G1/8										
4G	1/4" BSPP male - G1/4										
4S	7/16" - 20 SAE male with 0-ring	seal									
6S	9/16" - 18 SAE male with 0-ring	seal									
Circui											
A	SPST (normally open)										
B	SPST (normally closed)										
	,			_							
	ical termination	DCO Can is standard with	thic ontic								
FL	Flying Lead 18" long, 18 AWG, I	•		<u>[]</u>							
FLWF	Flying Lead Weatherpack connect Flying Lead Weatherpack connections			_							
FLDP	Flying Lead Deutsch connector, p		y leaus	=							
FLDR				_							
SP	, ,	eceptacie, to long leads		_							
3P	1/4" Spade			_							
Option	18										
1	FPM Diaphragm										
2	EPDM Diaphragm										
4	HNBR Diaphragm										
7	Gold contact 0.4 VA - 30 VDC										
20	Seal adjustment screw										
30	Rubber Boot - Removable (Exclu	des IP68 Cap if selected)									

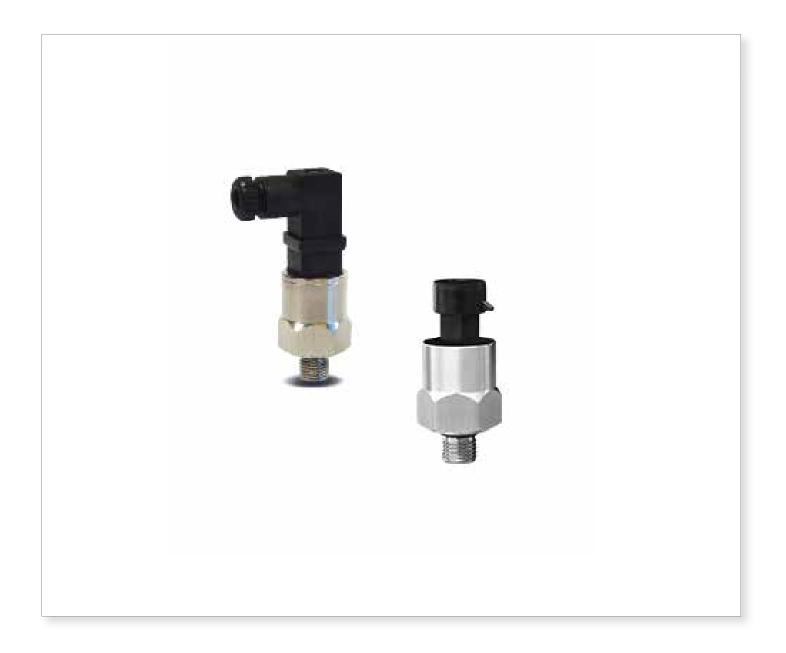
Wiring code			
Contact	Flying leads	FLWF / FLWM Weatherpack	FLDR / FLDP Deutsch receptacle / pug
Common	Black	PIN A	PIN 1
Normally closed	Black	PIN B	PIN 2
Normally open	Black	PIN B	PIN 3





MPT Series

Pressure Transducer



Clogging indicators

Pressure Transducer

The T200 / T201 series is suitable for both mobile and industrial applications. Its small profile is ideal for space contraints. The body is machined from a single piece of 304SS to provide added protection for the internal electronics. A piezoresistive ceramic sensor along with ASIC signal conditioning provides an excellent thermally compensated output.

Standard Features

- Piezoresistive Ceramic Sensor
- ASIC Signal conditioning

Applications

- Industrial Equipment
- Safety Monitoring
- Mobile Equipment

Materials

Ceramic Al₂O₃

NBR (Standard) or Optional: FKM, HNBR, EPDM

Specification

Accuracy: 0.5% BFSL

Long term drift: < 0.3% FS @ 77°F (25°C)

Process connection: SS304

Vibration: 10g (20-2000Hz) for ≤ 58 PSI (4 bar) 20g (20 - 500Hz) for ranges > 58 PSI (4 bar)

Shock: 50 g (11 ms)

Protection: Overvoltage, Short circuit, Reverse polarity protection Ingress protection: IP67 (IP65 for M2 Electrical Connection)

Response Time: < 1 ms

Pressure

- Pressure range: from 0 to 7,500 psi (517 bar)
- Proof Pressure: 140% to 200% FS based on range (consult factory)
- Burst Pressure: 180% to 400% FS based on range (consult factory)

Compliance

- IEC/EN 61000-4-3(2006) 100V/m 80-1000MHz
- IEC/EN 61000-4-4(2004) Class 3
- IEC/EN 61000-4-6(2006) 3Vrms 0.15-80MHz
- ROHS

Temperatures

Thermal error:

- 7.5 psi \geq 100 psi: 0.01% FS/°F (0.018% FS/°C)
- -100 psi > 400 psi: 0.009% FS/°F (0.016% FS/°C)
- $-400 \text{ psi} \ge 1000 \text{ psi}$: 0.011% FS/°F (0.019% FS/°C)
- 1000 psi > 3000 psi: 0.012% FS/°F (0.021% FS/°C)
- 3000 psi \geq 7500 psi: 0.018% FS/°F (0.028% FS/°C)

Compensated temperatures:

- MPT200 Series: from 32°F to 185°F (from 0°C to 85°C)
- MPT201 Series: from -40°F to 257°F (from -40°C to 125°C)

Operating temperatures:

from -40°F to 257°F (from -40°C to 125°C)

Storage temperature rating:

from -40°F to 275°F (from -40°C to 135°C)

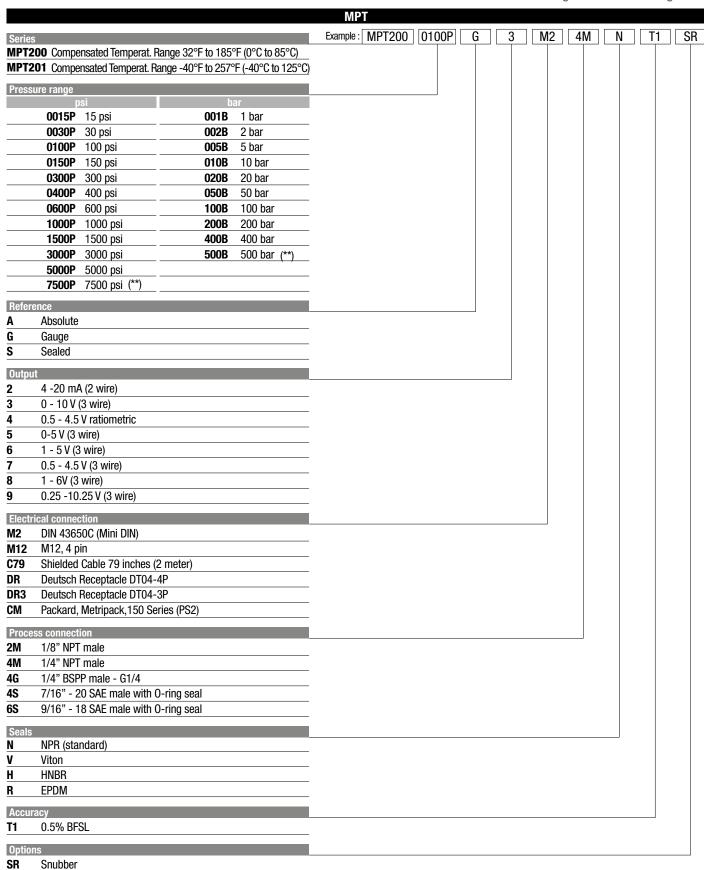
Weight

0.15 lbs (0.06 kg)





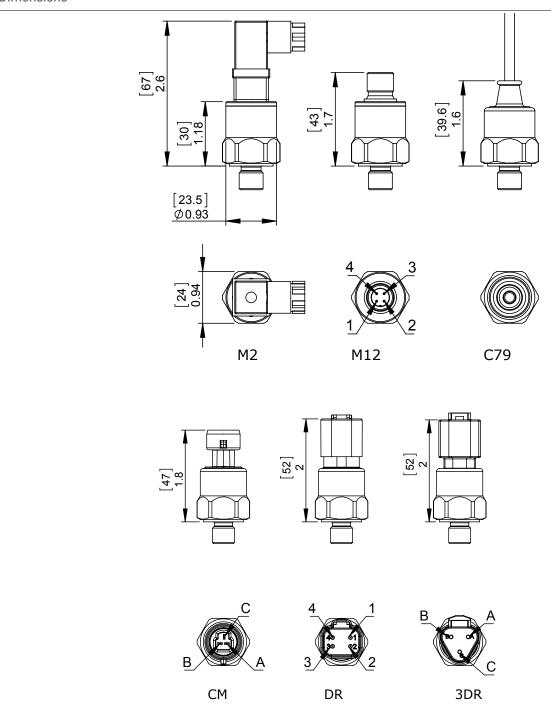
Designation & Ordering code



Other material and options available upon request. Custom design available. Please consult factory. (**) 7500 psi (500 bar) is only available with 7/16 SAE thread and 9/16 SAE thread.







Output						
Connector	4 - 2	0 mA	Voltage			
	Supply +	Supply -	Supply +	Common	Output +	
M2	1	2	1	2	3	
M12	1	3	1	3	4	
C79 - C158	Red	Black	Red	Black	White	
DR	2	1	2	1	4	
3DR	А	В	Α	В	С	
CM	В	А	В	A	C	







MPF Series

Temperature Switch



MPF5TAF & MPF7TAF GENERAL INFORMATION

Technical data

Clogging indicators

Temperature Switch

The MPF5TAF and MPF7TAF model series are bimetallic temperature switches. The MPF5TAF series features a large temperature differential and the MPF7TAF series features a small temperature differential. The sensing element is designed to provide rapid temperature response.

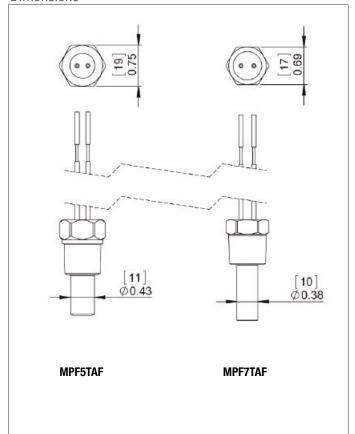
Standard Features

- Temperature switch and sensor
- Compact size
- Low differential

Applications

- Coolant temperature switch/sensor
- Lubrication systems
- Oil reservoir temperature switch/sensor

Dimensions



Materials

Housing: brass

Specification

Electrical: 120/240 VAC - 3A Resistive 120/240 VAC - 2.5A Inductive 12/24 VDC - 3A Resistive

12/24 VDC - 2A Inductive

Contact: MPF5TAF: silver MPF7TAF: gold

Switch type: bimetal snap action

Protection: IP65

Probe Length: MPF5TAF: 3/4" MPF7TAF: 1/2", 1", 2"

Pressure

Maximum overpressure: 5000 psi (345 bar)

Temperatures

Set point range (factory set):

MPF5TAF: from 130 °F to 300 °F (from 54 °C to 150 °C) MPF7TAF: from 40 °F to 300 °F (from 4 °C to 150 °C)

Temperature differential:

MPF5TAF: Approximately 30% of Setpoint MPF7TAF: Approximately <4% of Setpoint

Temperature exposure limit:

325°F (162°C)

Repeatability: +/- 7°F

Weight

0.15 lbs (0.06 kg)



MPF5TAF & MPF7TAF

Designation & Ordering code

PF5TAF Approximately 30% of differential (see Specifications Table) PF9TAF Approximately <4% of differential (see Specifications Table) #### Approximately <4% of differential (see Specifications Table) ###################################			MPF5TAF	& MPF7TAF			
PFTAF Approximately 30% of differential (see Specifications Table) PFTAF Approximately 44% of differential (see Specifications Table) Imperature Selection (Ferenheit Rising): MPFSTAF Model 130R 140R 140R 150R 160R 170R 170R 170R 170R 180R 190R 200R 200R 220R er Setpoints are avaiable upon request. Consult factory for availability. read options MPFSTAF Model 3/4" Probe 1/2" Probe 2" Probe 3/4" Probe 1" Probe 2" Probe 1" Probe 2" Probe "NPT 4M12 4M08 4M16 4M32 "NPT 6M12 N/A 6M16 N/A "NPT 6M12 N/A 6M16 N/A "NPT 8M12 8M08 8M16 8M32 " - 16 SAE with Viton 0-ring seal 8S12 N/A 8S16 N/A SPST (Normally Open) SPST (Normally Closed) ctrical termination Flying Lead Metherpack connector, female, Tower, 10" long leads PFlying Lead Deutsch connector, receptacle, 10" long leads PFlying Lead Methippack, Remale, 150 series, 10" long leads PFlying Lead Methippack, Female, 150 series, 10" long leads PF Flying Lead Methippack, Remale, 150 series, 10" long leads PF Flying Lead Methippack, Remale, 150 series, 10" long leads PF Flying Lead Methippack, Remale, 150 series, 10" long leads PF Flying Lead Methippack, Remale, 150 series, 10" long leads PF Flying Lead Methippack, Remale, 150 series, 10" long leads PF Flying Lead Methippack, 280 connector, male, 10" long leads PF Flying Lead Methippack 280 connector, male, 10" long leads PF Flying Lead Methippack 280 connector, male, 10" long leads PF Flying Lead Methippack 280 connector, male, 10" long leads PF Flying Lead Methippack 280 connector, male, 10" long leads	ries	_		Cor	nfiguration example : MPF	5TAF 120R 4M	08 A
### PTT ### AM12		ential (see Specificati	ons Table)				
mperature Selection (Farenheit Rising): MPFSTAF Model 130R 140R 140R 140R 150R 160R 160R 170R 170R 170R 170R 180R 190R 200R 220R er Setpoints are avaiable upon request. Consult factory for availability. read options MPFSTAF Model 3/4" Probe 1/2" Probe 1" Probe 2" Probe 4M12 4M08 4M16 4M32 "NPT 4M12 4M08 4M16 4M32 "NPT 6M12 N/A 6M16 N/A "NPT 6M12 N/A 6M16 N/A "NPT 8M12 8M08 8M16 8M32 "-16 SAE with Viton 0-ring seal 8S12 N/A 8S16 N/A cuit SPST (Normally Open) SPST (Normally Closed) Ctrical termination Flying Lead Weatherpack connector, remale, Tower, 10" long leads VM Flying Lead Weatherpack connector, remale, Tower, 10" long leads VM Flying Lead Deutsch connector, receptacle, 10" long leads VM Flying Lead Deutsch connector, receptacle, 10" long leads VM Flying Lead Deutsch connector, receptacle, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead, Metripack, female, 150 series, 10" long leads VM Flying Lead, Metripack, female, 150 series, 10" long leads VM Flying Lead, Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads VM Flying Lead Metripack, female, 150 series, 10" long leads							
MPFSTAF Model 130R 140R 140R 140R 150R 160R 170R 170R 170R 180R 180R 190R 200R 220R 220R er Setpoints are avaiable upon request. Consult factory for availability. ead options "NPT 4M12 4M08 4M16 4M32 "NPT 6M12 N/A 6M16 N/A "NPT 8M12 8M08 8M16 8M32 "-16 SAE with Viton 0-ring seal 8S12 N/A 8S16 N/A SPST (Normally Open) SPST (Normally Closed) Ctrical termination Flying Lead 18" long, 18 AWG, IP68 Cap is standard with this option WF Flying Lead Weatherpack connector, female, Tower, 10" long leads WM Flying Lead Deutsch connector, male, Shroud, 10" long leads PF Flying Lead Metripack, female, 150 series, 10" long leads PF Flying Lead, Metripack, female, 150 series, 10" long leads PF Flying Lead, Metripack, female, 150 series, 10" long leads PF Flying Lead, Metripack, female, 150 series, 10" long leads PF Flying Lead Metripack 280 connector, male, 10" long leads PF Flying Lead Metripack, female, 150 series, 10" long leads PF Flying Lead Metripack, female, 150 series, 10" long leads PF Flying Lead Metripack, female, 150 series, 10" long leads PF Flying Lead Metripack, female, 150 series, 10" long leads PF Flying Lead Metripack 280 connector, male, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads	kh	1					
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180R 190R 200R 220R ner Setpoints are avaiable upon request. Consult factory for availability. Iread options MPF5TAF Mode	160R	170R					
190R 200R 200R her Setpoints are avaiable upon request. Consult factory for availability. Irread options MPFSTAF Model	170R	180R					
200R 220R her Setpoints are avaiable upon request. Consult factory for availability. **Tread options** MPF5TAF Model	180R						
220R her Setpoints are avaiable upon request. Consult factory for availability. Irread options MPF5TAF Model	190R						
ner Setpoints are avaiable upon request. Consult factory for availability. MPFTAF Mode 3/4" Probe 1/2" Probe 1" Probe 2" Probe 4" NPT 4M12 4M08 4M16 4M32 4M16 4M16 4M32 4M16 4M16 4M18 4M16 4M32 4M16 4M16 4M18 4M18 4M16 4M18 4M16 4M18 4M18 4M16 4M18 4M16 4M18 4M18 4M16 4M18 4M18 4M16 4M18 4M18 4M16 4M18 4M18 4M18 4M16 4M18 4M18 4M18 4M18 4M18 4M18 4M18 4M18	200R						
MPFSTAF Model 3/4" Probe 1/2" Probe 1" Probe 2" Probe 4" NPT 4M12 4M08 4M16 4M32 3" NPT 6M12 N/A 6M16 N/A 2" NPT 8M12 8M08 8M16 8M32 4" - 16 SAE with Viton 0-ring seal 8S12 N/A 8S16 N/A reuit SPST (Normally Open) SPST (Normally Closed) sectrical termination Flying Lead 18" long, 18 AWG, IP68 Cap is standard with this option WF Flying Lead Weatherpack connector, female, Tower, 10" long leads WM Flying Lead Weatherpack connector, male, Shroud, 10" long leads DP Flying Lead Deutsch connector, plug, 10" long leads CM Flying Lead, Metripack, male, 150 series, 10" long leads PM Flying Lead, Metripack, female, 150 series, 10" long leads PM Flying Lead, Metripack, female, 150 series, 10" long leads PM Flying Lead Metripack 280 connector, male, 10" long leads PM Flying Lead Metripack 280 connector, male, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads							
MPF5TAF Model 3/4" Probe 1/2" Probe 1" Probe 2" Probe 4" NPT 4M12 4M08 4M16 4M32 3" NPT 6M12 N/A 6M16 N/A 2" NPT 8M12 8M08 8M16 8M32 4" - 16 SAE with Viton O-ring seal 8S12 N/A 8S16 N/A reuit SPST (Normally Open) SPST (Normally Closed) sectrical termination Flying Lead 18" long, 18 AWG, IP68 Cap is standard with this option WF Flying Lead Weatherpack connector, female, Tower, 10" long leads WM Flying Lead Deutsch connector, plug, 10" long leads DP Flying Lead Deutsch connector, receptacle, 10" long leads CM Flying Lead, Metripack, male, 150 series, 10" long leads PM Flying Lead Metripack, female, 150 series, 10" long leads PM Flying Lead Metripack, female, 150 series, 10" long leads PM Flying Lead Metripack, female, 150 series, 10" long leads PM Flying Lead Metripack, female, 150 series, 10" long leads PM Flying Lead Metripack 280 connector, female, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads	her Setpoints are avaiable upon requ	est. Consult factory f	or availability.				
3/4" Probe 1/2" Probe 1" Probe 2" Probe 4" NPT 4M12 4M08 4M16 4M32 8" NPT 6M12 N/A 6M16 N/A 2" NPT 8M12 8M08 8M16 8M32 4" - 16 SAE with Viton 0-ring seal 8S12 N/A 8S16 N/A reuit SPST (Normally Open) SPST (Normally Closed) setrical termination Flying Lead 18" long, 18 AWG, IP68 Cap is standard with this option WF Flying Lead Weatherpack connector, female, Tower, 10" long leads WM Flying Lead Weatherpack connector, male, Shroud, 10" long leads DP Flying Lead Deutsch connector, plug, 10" long leads DR Flying Lead Deutsch connector, receptacle, 10" long leads CM Flying Lead, Metripack, female, 150 series, 10" long leads CM Flying Lead, Metripack, female, 150 series, 10" long leads PM Flying Lead Metripack 280 connector, male, 10" long leads PM Flying Lead Metripack 280 connector, male, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads PF Flying Lead Metripack 280 connector, female, 10" long leads	nread options						
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	_PF Flying Lead Metripack 280 con	nector, female, 10" lo	ong leads	1.91.			

Wiring code			
Contact	Flying leads	FLWF / FLWM / FLCM / FLCF / FLPM / FLPF	FLDR / FLDP
Common	Black	PIN A	PIN 1
Normally closed	Black	PIN B	PIN 2
Normally open	Black	PIN B	PIN 2





Weld Flanges



Weld flange general information

Technical data Installation example

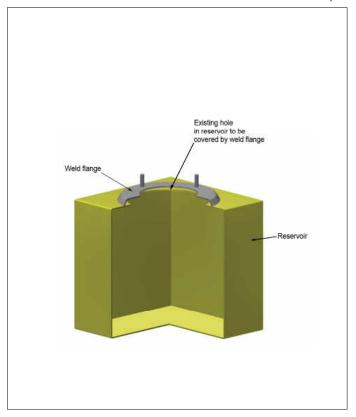
Accessories

Weld flange

Weld Flanges are designed to mount MP Filtri tank top filters onto metal tanks that have exisiting holes that do not match the desired filter. Round as well as square versions are available.

Standard Features

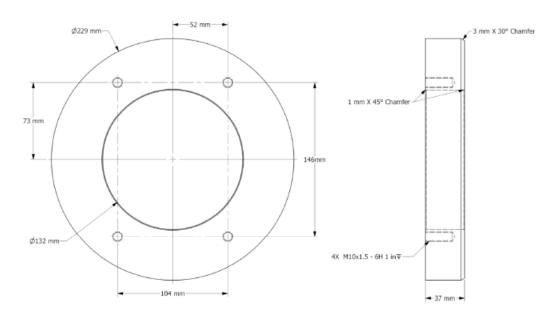
- Material: 1 gauge ASTM A569 steel
- Mounting surface flatness: 0.0007 in/in
- Press fit and tack welded studs

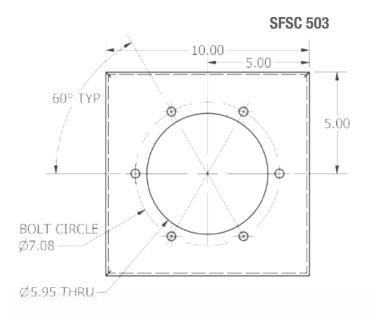


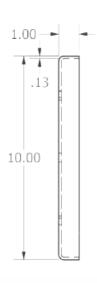
SFMC 250 Threaded connections SFMC 250 Flanged connections Flanged con

SUCTION FILTER WELD FLANGE

SFSC 500

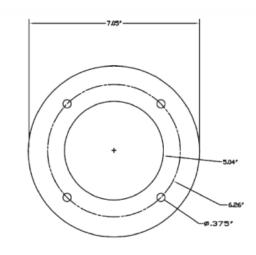


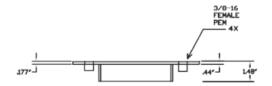




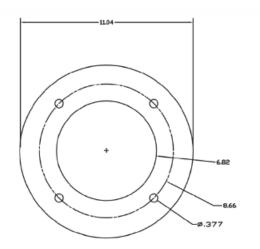
RETURN FILTER WELD FLANGE

MPF/MPFX 184 Round



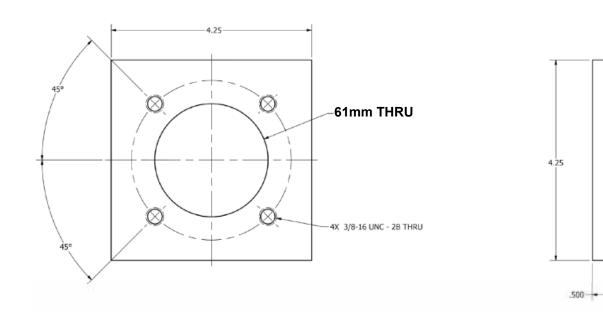


MPF/MPFX 400 Round MPF/MPFX 750 Round



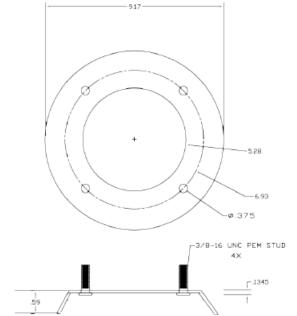


MPT/MPTX 027 Round

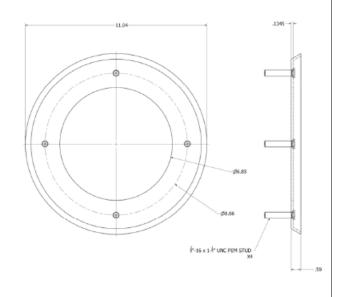




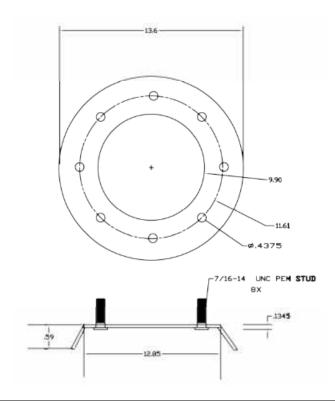




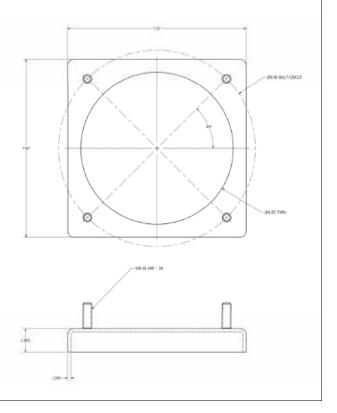
MPH 630



MPH 850



MPH 630 Square







HSP Series

Test Equipment



Hydraulic Hose Coupling Kit

Temperature and Pressure Test Kit

JIC 37° Hose Couplings are pivotal test kits used to obtain pressure of temperature checks during servicing or fault finding. Install JIC Hose Couplings between the female swivel nut of the flexible hose and the fixed male connection.

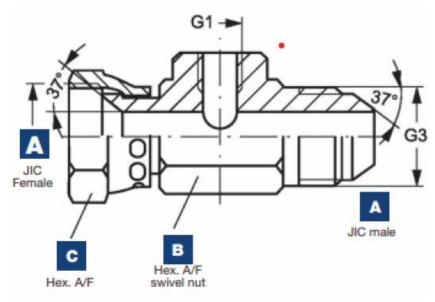
All probes may be connected and disconnected at full system pressure without fluid loss or ingress of dirt.

Available features

- Ease of Use: The male and female connections are designed to apply to all connection types
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple sizes and distances meet the needs for all customers and applications.
- Flexibility: Can be used with direct or remote test probes

JIC Hydraulic Hose Series

- Fitted with a test point plug
- JIC 37° cone seat, Sizes: 1/4" to 1-1/2"
- -20°C to +200°C
- 4°F to 392°F
- Comes standard with Viton seals
- Material/Coating: Steel, Zinc/Nickel-Plated



Part Number	Size	A JIC 37° Thread ISO 8434-2	G1 SAE straight thread Oring Boss Port	В	С	Working Pressure
HSP1040-4MV	1/4"	7/16" -20 UNF	7/16" -20 UNF	36 mm	17 mm	6100 psi
HSP1040-6MV	3/8"	9/16" -18 UNF	7/16" -20 UNF	36 mm	19 mm	5000 psi
HSP1040-8MV	1/2"	3/4" -16 UNF	7/16" -20 UNF	36 mm	22 mm	5000 psi
HSP1040-10MV	5/8"	7/8" -14 UNF	7/16" -20 UNF	36 mm	27 mm	5000 psi
HSP1040-12MV	3/4"	1- 1/6" -12 UN	7/16" -20 UNF	41 mm	32 mm	5000 psi
HSP1040-16MV	1"	1- 5/16" -12 UN	7/16" -20 UNF	46 mm	38 mm	3600 psi
HSP1040-20MV	1- 1/4"	1- 5/8" -12 UN	7/16" -20 UNF	50 mm	50 mm	3600 psi
HSP1040-24MV	1- 1/2"	1- 7/8" -12 UN	7/16" -20 UNF	60 mm	60 mm	2400 psi



Test Point Plugs

The HSP2000 test point plugs are designed to be complementary and interchangeable with similar equipment from other manufacturers.

Test point plugs and probes are installed in the hydraulic system to monitor conditions without the need for system shutdown. They allow connection to a pressure gauge and can be used in moth mobile or industrial applications where system monitoring is required.

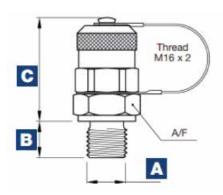
Available with Skydrol Hydraulic Fluid compatibility for Aerospace properties.

Available features

- Flexibility: HSP2000's design allows for interchangeability with similar equipment to adapt to the customer's current equipment easily
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple sizes and distances meet the needs for all customers and applications.

HSP SERIES

- Conforms to ISO 1517-2
- Material/Coating: Steel, Zinc/Nickel-Plated Stainless Steel AISI 316-DIN 14436 (optional)
- Seals: Viton (-4°F to 392°F / -20°C to 200°C) Standard Buna (-22°F to 248°F / -30°C to 120°C) (Optional)
- Working Pressure: 91,000 psi (630 BAR) max
- Burst Pressure: >36,000 psi
- Compatibility: Hydraulic oils and mineral based oils
- All test points are supplied with integrated anti-vibration O-ring





Part Number	A	В	C	A/F	Max Pressure	Weight
HSP2000-BV	1/4" BSPP	0.47"	1.38"	0.75"	9100 psi	0.16 lbs
HSP2000-BV-SKYDROL	1/4"BSPP	0.47"	1.38"	0.75"	9100 psi	0.16 lbs
HSP2000-DV	7/16"-20 UNF (SAE-4)	0.43"	1.38"	0.67"	9100 psi	0.14 lbs
HSP2000-DV-SKYDROL	7/16"-20 UNF (SAE-4)	0.43"	1.38"	0.67"	9100 psi	0.14 lbs
HSP2000-EV	9/16-18 UNF (SAE-6)	0.47"	1.38"	0.75"	9100 psi	0.16 lbs
HSP2000-HV 1/4" NPTF	1/4" NPTF	0.55"	1.30"	0.67"	9100 psi	0.15 lbs
HSP2000-HVSS	1/4" NPTF	0.55"	1.30"	0.67"	9100 psi	0.15 lbs
HSP2000-KV	1/8" NPTF	0.37"	1.30"	0.67"	5800 psi	0.13 lbs

Pressure Gauge Connection

The HSP3000 are used to connect the gauge to the hose probe assemblies (HSP6000). These adaptors are designed to be complementary to and interchangeable with similar equipment from other manufacturers using ISO 15171-2 standards.

Adaptors may be bulkhead mounted in a control console or test panel, or hand held for use in servicing and fault finding to obtain pressure checks when required.

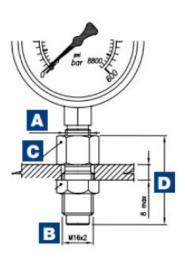
Test Point Plugs (HSP2000) installed in the hydraulic system allow connection and disconnection at full system pressure without loss of oil or ingress of dirt.

Available features

- Ease of Use: The visual gauges allow the liquid level to be checked clearly at any time
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple sizes and distances meet the needs for all customers and applications.

HSP 3000 Series

- Conforms to ISO 15171-2 standards
- Max Working pressure: 9100 psi (630 BAR)
- Material/Coating: Steel, Zinc/Nickel Plated
- To suit 1/4" or 1/2" NPTF
- Designed for use with HSP6000, HSP2000, and MPG series pressure gauge



Part Number	A Thread	B Thread	C (A/F)	D	Max Panel Thickness
HSP3000-2NV	1/4" NPTF	M16 x 2	19 mm	51 mm / 2" 58 mm	8mm / 0.31"
HSP3000-4NV	1/2" NPTF	M16 x 2	27 mm	/ 2.28"	8mm / 0.31"



Hose/Probe Testing Assembly

Hose Testing Kit

These Hose/Probe assemblies are designed to be complementary to and interchangeable with similar equipment from other manufacturers using ISO 15171-2 standards.

The Hose/Probe forms the link between the ISO 15171-2 hydraulic system Test Point Plugs and the Pressure Gauge/Adaptor assemblies, the whole arrangement being used to obtain random pressure checks during servicing and fault finding.

Probes may be connected and disconnected at full system pressure without fluid loss or ingress of dirt.

Available features

- Ease of Use: The visual gauges allow the liquid level to be checked clearly at any time
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple sizes and distances meet the needs for all customers and applications.

HSP 6000 SERIES

- Working Pressure: 91000 PSI (630 BAR)

- Working Temperature: -20°C to 100°C

-4°F to 212°F

- Temperature / 100% Working Pressure: -20°C to 50°C

-4°F to 122°F

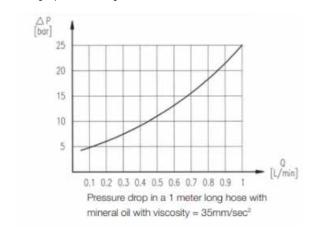
- Hose Material & Cover: Polyamide

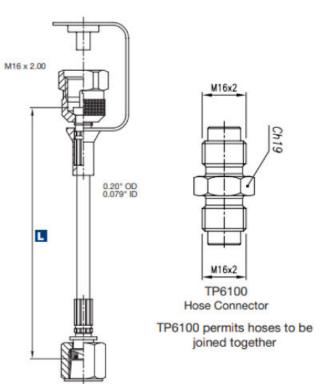
- Material/Coating: Steel, Zinc/Nickel-Plated

- Nominal Bore (DN) (mm) DN2

- Inside Diameter: 2mm +/- 1mm - Outside Diameter: 5mm =/- 1mm

- Weight per meter: 18g





Part Number	L Length
HSP6000-12	12" / 30.5 cm
HSP6000-24	24" / 61.0 cm
HSP6000-36	36" / 91.4 cm
HSP6000-48	48" / 122 cm
HSP6000-60	60" / 152 cm
HSP6000-72	72" / 183 cm
HSP6100	Hose Connector

Fluid Sampling Kit

The equipment comprises a screw-on probe connected by a flexible hose to an adjustable flow control valve which allows steady state fluid samples to be extracted from the working system without having to disrupt your progress.

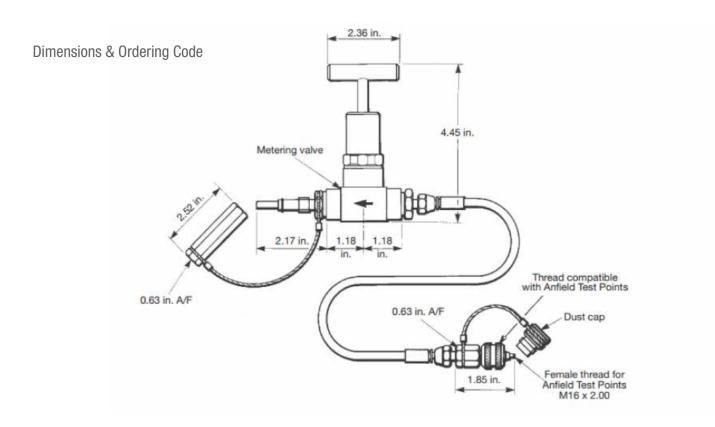
When used in conjunction with Test Point Plugs (HSP2000), the equipment facilitates the removal of fluid samples from selected points throughout a system without danger of extraneous contamination, even with the system at full working pressure and temperature.

Available features

- Ease of Use: The valve and hose allow for easy removal of fluid for sampling during operation
- Electrically Safe: No electrical contact with fluid.

HSP690

- Designed for off-line bottle sampling
- Adjustable flow control for steady state samples
- Operates up to 6000 PSI (414 Bar) system pressure
- Viton Seals are standard: -20°C to 200°C -4° F to 392°F



Part	Length
Number	of Hose
HSP690-CMV	40" (1000 MM)



Pressure Gauge Adaptor

This Direct Gauge Adaptor Probe is designed for use with Test Point Plugs (HSP2000) or with plugs of other manufacturers to ISO 15171-2 standard.

The probe can be attached to any one of a number of plugs installed throughout the hydraulic system to facilitate random pressure readings during servicing and fault finding.

Probes may be connected or disconnected at full system pressure without loss of oil or ingress of dirt

Available features

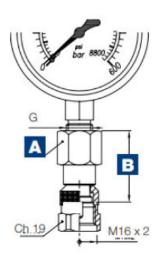
- Ease of Use: The gauges allow the liquid pressure readings to be checked clearly at any time
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple gauge thread sizes allows for variability of products that are compatible

HSP 7000 SERIES

- Conforms to USO 15171-2 standards
- Working pressure up to 9100 PSI (630 BAR)
- Material/Coating: Steel, Zinc/Nickel-Plated

Stainless Steel AISI 316- DIN 14436 (Optional)

- For use with MPG Series 2-1/2" & 4" diameter glycerine filled pressure gauges
- Suitable for HSP2000 and HSP1014 Series test point plugs



Part Number	Gauge Thread	A (A/F)	В
HSP7000-2NV	1/4" NPTF	19 mm	1.34"
HSP7000-4SV	7/16" - 20 (SAE 4)	19 mm	1.34"
HSP7000-4NV	1/2" NPTF	19 mm	1.34"





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