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ACCESSORIES

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Ningbo Tech-Hydro Co. Ltd

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※ All original manufacturers' names, part numbers and description are for reference purposes only and it doesn't imply that any Part listed is the product of these manufacturers.



TH SERIES ROTARY GEAR FLOW DIVIDERS

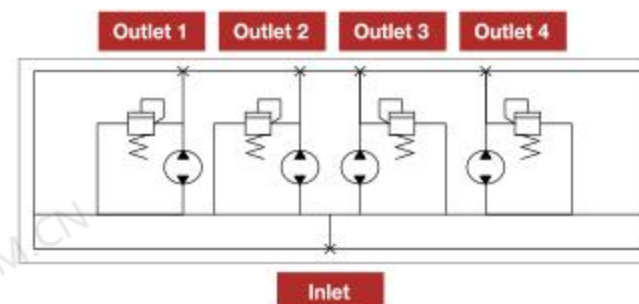
Description



- Tech Hydro Gear dividers work from a single pump source to:
 - 1) Synchronize operation of multiple cylinders or fluid motors.
 - 2) Intensify pressure when pressure higher than pump capacity is required.
 - 3) Proportionally divide pump flow out among several circuits.
- TH1 Series displacement: 1.60 cm³ to 8.42 cm³ per section
- TH2 Series displacement: 6 cm³ to 31 cm³ per section

Technical Data

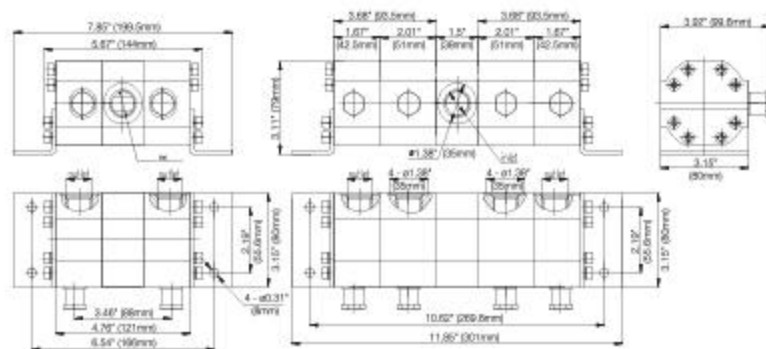
- Housing: Aluminum
- Filtration: 25 micron or better
- Fluid: Hydraulic Fluid HLP mineral Oil DIN 51524 Part2
- Flow Accuracy: +/- 1.5% to 2%
- Pressure Drop: 230-275 PSI (16-19 BAR)



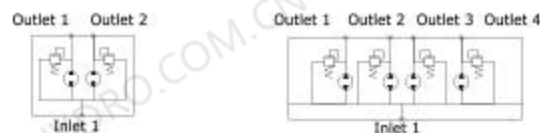
Dimension

TH1 Series Rotary Gear Flow Dividers

Displacement up to 8.42 cm³ per section

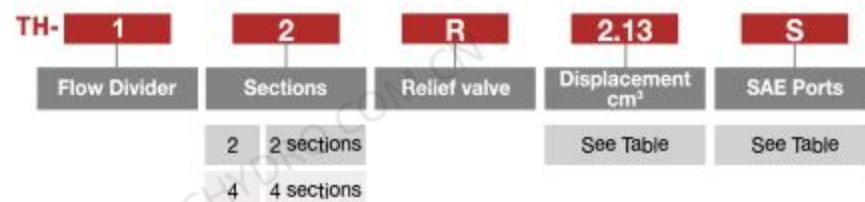


Schematic



Displacement per section		SAE Port		Min. Flow/sec		Max. Flow/sec		Cont. Diff. Between Pressure Inlet/Outlet		Maximum Outlet Pressure any section	
cm ³ /rev	cu.in/rev	Inlet	Outlet	LPM	GPM	LPM	GPM	PSI	BAR	PSI	BAR
1.60	0.097	SAE8	SAE6	3.0	0.8	6.4	1.7	1800	124	3500	240
2.13	0.129	SAE8	SAE6	4.5	1.2	9.5	2.5	1800	124	3500	240
3.18	0.194	SAE8	SAE6	6.4	1.7	13.2	4.5	1800	124	3500	240
4.24	0.258	SAE10	SAE10	9.5	2.5	18.9	5.0	1800	124	3500	240
5.29	0.323	SAE10	SAE10	11.4	3.0	22.7	6.0	1800	124	3500	240
6.36	0.388	SAE10	SAE10	13.2	3.5	26.5	7.0	1600	110	3500	240
7.42	0.483	SAE10	SAE10	15.1	4.0	30.3	8.0	1300	90	3500	240
8.42	0.517	SAE10	SAE10	17.0	4.5	34.1	9.0	1200	83	3500	240

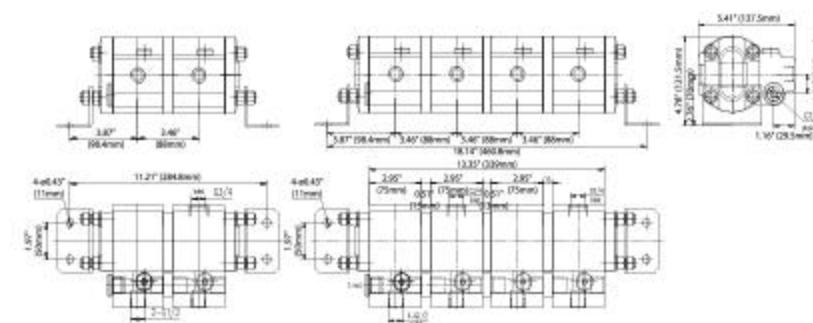
Ordering Information



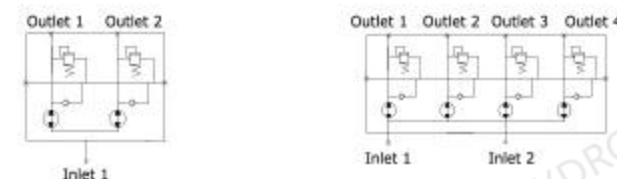
Dimension

TH-2 Series Rotary Gear Flow Dividers

Displacement up to 31 cm³ per section

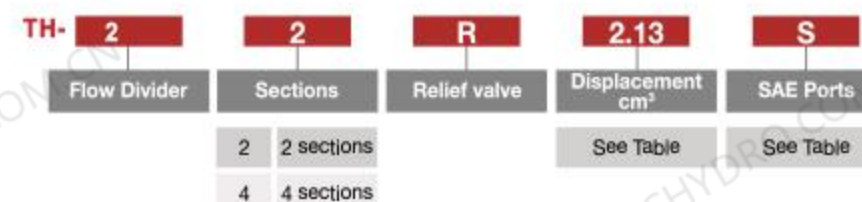


Schematic



Displacement per section		SAE Port			Min. Flow/sec		Max. Flow/sec		Cont. Diff. Between Pressure Inlet/Outlet		Maximum Outlet Pressure any section	
cm ³ /rev	cu.in/rev	Inlet	Outlet	Drain	LPM	GPM	LPM	GPM	PSI	BAR	PSI	BAR
6	0.366	SAE10	SAE8	SAE6	3.0-16	0.8-4.2	18	4.8	3142	220	3571	250
8	0.488	SAE10	SAE8	SAE6	4.0-19	1.1-5.0	22	5.8	3142	220	3571	250
11	0.671	SAE10	SAE8	SAE6	5.5-25	1.5-6.6	27	7.1	3142	220	3571	250
14	0.854	SAE10	SAE8	SAE6	7.0-32	1.8-8.4	34	9.0	2857	200	3142	220
17	1.037	SAE12	SAE8	SAE6	8.5-34	2.2-9.0	37	9.8	2857	200	3142	220
25	1.525	SAE12	SAE8	SAE6	12-48	3.1-12.67	53	14	2857	200	3142	220
31	1.891	SAE12	SAE8	SAE6	14-60	3.7-15.84	70	18.5	2286	160	2571	180

Ordering Information



FEATURES

PCC-*-51 model is a full range pressure compensating variable flow control. It is designed so that the orifice area varies as the lever is rotated. The outlet flow is smooth and constant regardless of the pressure on the control flow or excess flow ports. An adjustable ball spring relief allows for pressure compensated flow up to the pressure setting on the relief. Relief valves are preset at 1500 psi and field adjustable from 750 to 3000 psi.

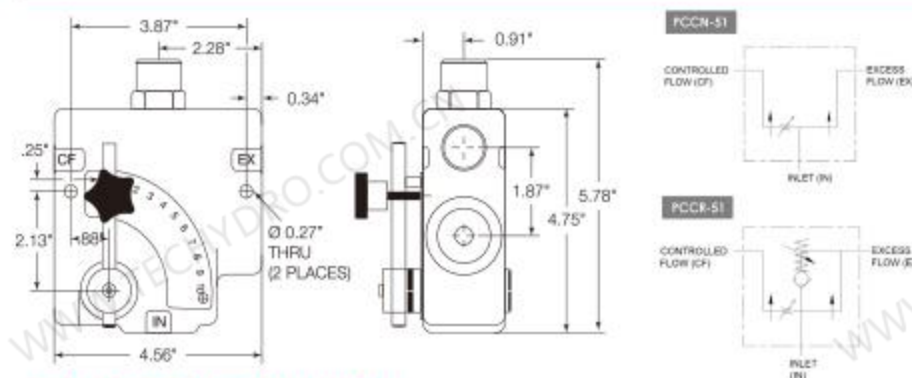
MATERIALS

Cast iron body, heat treated compensator spool, stainless steel rotary spool, Buna N "O" rings (standard).

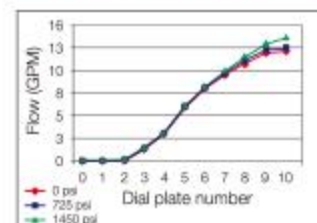


PCC-*-51

DIMENSIONS



FLOW CURVE & INFORMATION



Code	Size	Flow
38-N	3/8"-NPT	0-8 gpm
12-N	1/2"-NPT	0-16 gpm
34-N	3/4"-NPT	0-30 gpm
08-S	3/4-16 UNF	0-8 gpm
10-S	7/8-14 UNF	0-16 gpm
12-S	1 1/16-12 UN	0-30 gpm

*RATED FOR 3000 PSI (207 BAR)

ORDERING INFORMATION

PCC-

Pressure compensated flow control

R-

Adjustable ball spring relief
N - No relief

51-

Standard flow control

34-N

Port size:
38-N 08-S
12-N 10-S
34-N 12-S



FAN COOLER



Cooler form	Max. Flow (L/min)	Working pressure (bar)	Cooling capacity (Kcal/h)	Power consumption		Fan Speed (rpm)	Noise (dB)	Max. oil temperature (°C)	Max. viscosity (mm²/s)	Weight (KG)
				Ac fan (AC220V)	Ac fan (AC380V)					
TH-0607T	60	35	800	38	45	2700	50	130	2000	4
TH-0608T	80	35	1200	38	45	2700	50	130	2000	4.5
TH-1012T	100	35	4700	100	80	2500	60	130	2000	11
TH-1417T	150	35	12100	140	140	1420	60	130	2000	22.2
TH-1470T	200	35	15400	140	140	1420	60	130	2000	22.6
TH-1490T	250	35	20000	140	140	1420	60	130	2000	25.6
TH-1680T	300	35	26000	340	370	1400	70	130	2000	55
TH-1890T	350	35	35000	340	370	1400	75	130	2000	56
TH-22100T	500	35	57200	550	550	1420	76	130	2000	83
TH-22120T	600	35	68600	550	550	1420	76	130	2000	91
TH-25120T	700	35	87500	780	550	1420	77	130	2000	110
TH-0608TL	60	35	2600	38*2	45*2	2700	50	130	2000	6.7
TH-1012TL	100	35	10600	100*2	80*2	2500	68	130	2000	25



OIL COOLER



Model	A	B	C	øD	E	F	G	J	K	øL	M	N	Flow	Heat transfer area m²
TH-CR-60	450	305	46	90	120	3/4"	3/4"	23	11	115.5	95	7×10	60	0.26
TH-CR-100	555	403	57	114	150	3/4"	3/4"	33	12.5	145.5	106.5	10×20	100	0.38
TH-CR-150	575	385	76	140	180	1 1/4"	1"	30	12.5	175	130	13×16	150	0.62
TH-CR-250	780	585	76	140	180	1 1/4"	1"	30	12.5	175	130	13×16	250	1.30
TH-CR-350	1180	990	76	140	180	1 1/4"	1"	30	12.5	175	130	13×16	350	2.00
TH-CR-600	1175	990	87	165	205	2"	1 1/4"	34	12.5	200	161	13×16	600	2.30
TH-CR-800	1700	1450	87	165	205	2"	1 1/4"	34	12.5	200	161	13×16	800	3.00
TH-CR-1000	2140	1890	87	165	205	2"	1 1/4"	34	12.5	200	161	13×16	1000	3.70
TH-CR-1200	2530	2270	87	165	205	2"	1 1/4"	34	12.5	200	161	13×16	1200	4.40



TH-KM600 SERIES

TH-KM 600

01 02 03 04 05 06

01 MODEL

TH-KM = Speed increaser (aluminium body)

02 Series Number

600

03 P.T.O

1 = Male 1"3/8 DIN 9611
2 = Female 1"3/8 DIN 9611
3 = Female 1"3/8 DIN 9611 short
4 = Female 1"3/8 DIN 9611+ tightening

04 Transmission ratio

1 = 1:1.5 4 = 1:3.0
2 = 1:2.0 5 = 1:3.5
3 = 1:2.5 6 = 1:3.8

05 Mounting positions

A/B/C

06 Transmission ratio

Omit = for pumps GR.2
S = SAE A(60100)



TH-KM700 SERIES

TH-KM 700

01 02 03 04 05 06

01 MODEL

TH-KM = Speed increaser (aluminium body)

02 Series Number

700

03 P.T.O

1 = Male 1"3/8 DIN 9611
2 = Female 1"3/8 DIN 9611
3 = Female 1"3/8 DIN 9611 short
4 = Female 1"3/8 DIN 9611+ tightening

04 Transmission ratio

Omit = for pumps GR.3/GR.2
T = SAE B(96101)
W = SAE B(96100)

05 Mounting positions

A/B/C/D

06 Transmission ratio

1 = 1:1.5 4 = 1:3.0
2 = 1:2.0 5 = 1:3.5
3 = 1:2.5 6 = 1:3.8



TH-KM710 SERIES

TH-KM 710

01 02 03 04 05 06

01 MODEL

TH-KM = Speed increaser (aluminium body)

02 Series Number

710

03 P.T.O

5 = Female/Male 1"3/8 DIN 9611
6 = Female/Female 1"3/8 DIN 9611
7 = Male/Male 1"3/8 DIN 9611
8 = Female/Male 1"3/8 DIN 9611+ tightening

04 Transmission ratio

1 = 1:1.5 4 = 1:3.0
2 = 1:2.0 5 = 1:3.5
3 = 1:2.5 6 = 1:3.8

05 Mounting positions

A/B/C/D

06 Transmission ratio

Omit = for pumps GR.3/GR.2
T = SAE B(96101)
W = SAE B(96100)



TH-SPIN-ON LINE FILTER SERIES

TH-SP

01 02 03 04 05

01 MODEL

TH-SP = Spin-on line filter

02 Filter

H = Filter head
Omit = A set of filter
X = Element

03 Nom.Dia.

06 = RC3/4

04 Filtration accuracy

10, 25 = 10µm, 25µm Omit = Only buy filter head

05 Filter type

Omit = Return filter J = Oil suction filter



Model	Max.Press. (MPa)	Blow up press (MPa)	By-pass setting (MPa)	Flow rate(L/min)		Filtr. (µm)	Weight (KG)	Screw	Model of filter head		Model of element
				Oil return	Oil absorption				Oil return	Oil absorption	
TH-SP-06×10	0.7	2.0	0.25	60	20	10	0.76	R3/4	SPH-06	SPH-06-J	SPX-06×10
TH-SP-06×25				70	25	25	0.76	R3/4			SPX-06×20
TH-SP-08×10				60	20	10	0.76	R1	SPH-08	SPH-08-J	SPX-08×10
TH-SP-08×25				70	25	25	0.76	R1			SPX-08×25
TH-SP-10×10				144	42	10	1.88	R1 1/4	SPH-10	SPH-10-J	SPX-10×10
TH-SP-10×25				160	50	25	1.88	R1 1/4			SPX-10×25
TH-SPA-10×10				200	58	10	2.70	R1 1/4			SPAX-10×10
TH-SPB-10×10				320	80	10	3.0	R1 1/4			SPBX-10×10



TH-RF SERIES FILTER

TH-RF - - X - -

01 02 03 04 05 06

01 Code

TH-RF = Tank mounted return filter series

02 Medium

BH = Water-glycol Omit = Hydraulic oil

03 Flow rate

04 Filtration accuracy

05 Indicator

Omit = Without indicator
Y = With CYB-I indicator sDC24V
C = With CY-II indicator s220V

06 Connector

L = Threaded connection F = Flanged connection



Model	Flow rate (L/min)	Filtr. (μm)	Dia. (mm)	Press (MPa)	Initial P(MPa)		Indicator		Weight (KG)	Model of element
					Initial	Max.	(V)	(A)		
TH-RF-60×*.*	60	1	20	1	≤0.07	0.35	12	2.5	0.4	LH0060R*BN/HC
TH-RF-110×*.*	110		0.9						LH0110R*BN/HC	
TH-RF-160×*.*	160		1.1						LH0160R*BN/HC	
TH-RF-240×*.*	240	3	40				24	2	1.8	LH0240R*BN/HC
TH-RF-330×*.*	330								2.3	LH0330R*BN/HC
TH-RF-500×*.*	500	5	50				36	1.5	3.2	LH0500R*BN/HC
TH-RF-660×*.*	660	10	60						4.1	LH0660R*BN/HC
TH-RF-850×*.*	850	20	80						13	LH0850R*BN/HC
TH-RF-950×*.*	950	30	90				220	0.25	20	LH0950R*BN/HC
TH-RF-1300×*.*	1300		100						41.5	LH1300R*BN/HC



TH-RFA SERIES FILTER

TH-RFA - - X - -

01 02 03 04 05 06

01 Code

TH-RFA = Tank mounted mini-type return filter series

02 Medium

BH = Water-glycol
Omit = Hydraulic oil

03 Flow rate

04 Filtration accuracy

05 Connector

L = Threaded connection
F = Flanged connection

06 Indicator

Omit = Without indicator
Y = With CYB-I indicator sDC24V
C = With CY-II indicator s220V



HT-RFB SERIES FILTER

TH-RFB - - X - -

01 02 03 04 05 06

01 Code

TH-RFA = Tank mounted mini-type return filter series

02 Medium

BH = Water-glycol
Omit = Hydraulic oil

03 Flow rate

04 Filtration accuracy

05 Connector

L = Threaded connection
F = Flanged connection

06 Indicator

Omit = Without indicator
Y = With CYB-I indicator sDC24V
C = With CY-II indicator s220V



Model	Flow rate (L/min)	Filtr. (μm)	Dia. (mm)	Press (MPa)	Initial P (MPa)		Indicator		Weight (KG)	Model of element
					Initial	Max.	(V)	(A)		
TH-RFA-25×*L.*	25	1	15	1.6	≤0.075	0.35	12	2.5	0.85	FAX-25×*
TH-RFA-40×*L.*	40		20						0.9	FAX-40×*
TH-RFA-63×*L.*	63		25						1.5	FAX-63×*
TH-RFA-100×*L.*	100	3	32						1.7	FAX-100×*
TH-RFA-160×*L.*	160	5	40						2.7	FAX-160×*
TH-RFA-250×*L.*	250	10	50						4.35	FAX-250×*
TH-RFA-400×*L.*	400	20	65						6.15	FAX-400×*
TH-RFA-630×*L.*	630	30	90				220	0.25	8.2	FAX-630×*
TH-RFA-800×*L.*	800								8.9	FAX-800×*
TH-RFA-1000×*L.*	1000								9.96	FAX-1000×*

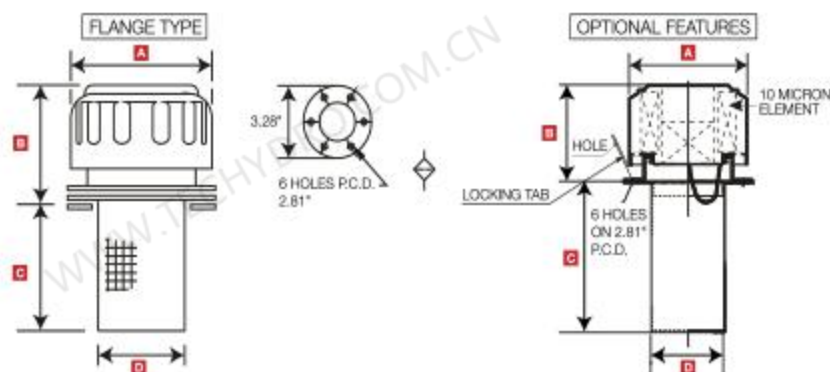
SPECIFICATIONS

- Chrome-plated steel cap - vents underneath.
- Filtration 40 microns standard, 10 microns optional.
- Air Flows To 25 CPM (750 LPM)
- Metal Strainer Standard
- Hardware includes gaskets and 10-32 screws.



TH-FBA

DIMENSIONS



Model	Displacement (LPM)	Rating (microns)	A (in)	B (in)	C (in)	D (in)	Wt (lbs)
TH-FBA-80 B40	720	40	3.03	2.44	3.58	1.97	0.55
TH-FBA-80 B10	400	10	3.03	2.44	3.58	1.97	0.55

ORDERING INFORMATION

TH-FBA	80	B40	B0	DS4	01
Metal Filler Breather series		Filtration (microns)	Strainer	Dipstick Option	Locking Tab
		B40 - 40 μ std	B0 - 3.58"	Blank - No Dipstick	01 - Without tab
		B10 - 10 μ nom	B002 - 6"	DS4 - 4"	L1 - With tab
			B003 - 8"	DS6 - 6"	
				DS8 - 8"	

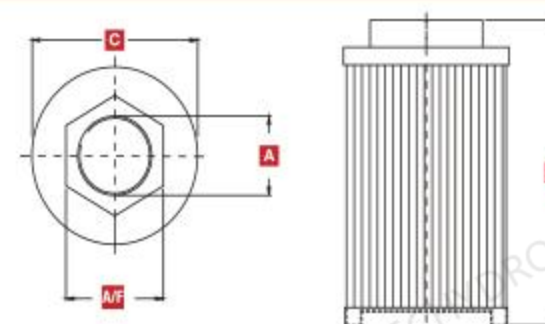
SPECIFICATIONS

- Reusable stainless steel 100 mesh, 149 micron standard
- Nylon nut
- Steel cap / support tube
- Maximum working temperature: 176°F
- Suitable for hydraulic/mineral oils
- Consult factory for water application
- Flexible magnetic wrap available



TH-SE

DIMENSIONS



Model	Flow (gpm)	A Thread NPT (in)	B Overall Length (in)	C Dia. Nut Cap (in)	A/F Nut (in)	Screen Area (in²)	Wt (lbs)	Magnet Wrap
TH-SE-005	5.28	1/2	3.11	2.68	0.98	62.00	0.44	1
TH-SE-007	7.93	3/4	3.58	2.68	1.42	67.89	0.44	2
TH-SE-010	10.57	1	5.39	2.68	1.61	110.05	0.66	2
TH-SE-020	21.13	1-1/4	6.89	3.35	1.97	161.98	0.99	2
TH-SE-030	31.70	1-1/2	8.11	3.35	2.32	224.91	1.21	2
TH-SE-050	52.83	1-1/2	10.00	4.02	2.76	339.92	1.43	2
TH-SE-051	52.83	2	10.00	4.02	2.76	339.92	1.76	3
TH-SE-075	79.25	2-1/2	10.20	5.16	3.35	399.90	2.31	3
TH-SE-100	105.70	3	11.81	5.16	3.78	499.88	3.00	3

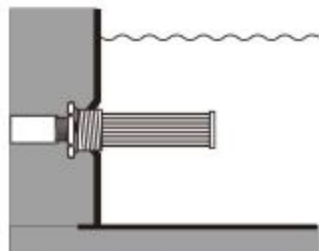
ORDERING INFORMATION

TH-SE	005	N	149	**	M
Suction Strainer series	Size	Port Threads Connection	Microns	Bypass	Magnet Wrap
		N - NPT (Std)	149 - SS100 Mesh	RB3 - 3 PSI Bypass (Optional)	M - Magnet Wrap (Optional)

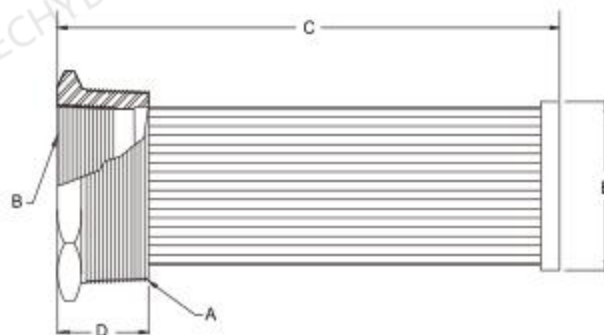
Consult factory for optional/special features.

SPECIFICATIONS

- No by-pass.
- Perforated steel support tubes.
- Temperatures to +250°F (+120°C).
- 100 Mesh stainless steel plated elements.
- 5 PSI by-pass special order.
- Designed for ease of servicing.
Access to tank interior is not necessary.
- Mount through sidewall or through tank top and into a standpipe.



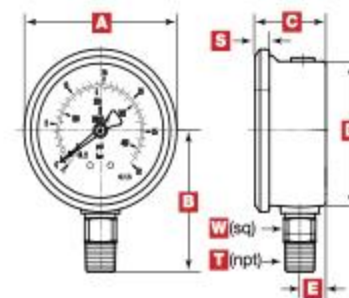
ORDERING INFORMATION



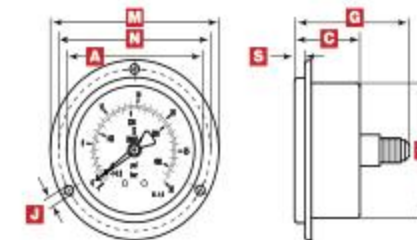
Part #	GPM Rating	A	B	C	D	E	Screen Area (in ²)
TH-TMS-3	3	3/4" NPT	3/8" NPT	4.00	0.97	0.87	28.70
TH-TMS-5	5	1" NPT	1/2" NPT	5.34	1.06	1.03	35.00
TH-TMS-10	10	1 1/4" NPT	3/4" NPT	8.17	1.10	1.36	64.00
TH-TMS-15	15	1 1/2" NPT	1" NPT	8.20	1.30	1.62	86.00
TH-TMS-25	25	2" NPT	1 1/4" NPT	9.04	1.30	2.12	125.00
TH-TMS-50	50	3" NPT	2" NPT	9.70	1.70	3.00	260.00
TH-TMS-100	100	4" NPT	3" NPT	11.30	1.80	4.00	315.00

Units: inches

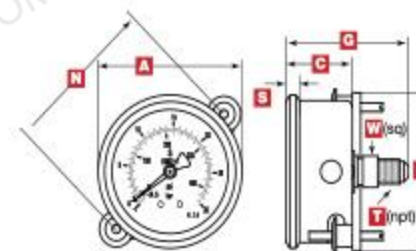
DIMENSIONS



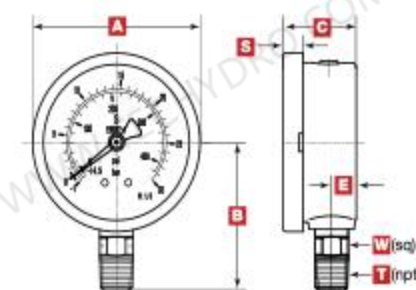
2-1/2" MPG Model A



2-1/2" MPG Model D & E



2-1/2" MPG Model B



4" MPG Model A

Size	Weight	A	B	C	D	E	G	H	J	M	N	S	T	W
2-1/2"	0.42 lbs	2.5"	2.13"	1.26"	2.44"	0.51"	2.13"	--	0.14"	3.35"	2.95"	0.26"	1/4"	0.55"
4"	1.76 lbs	4"	3.41"	1.89"	3.99"	0.61"	3.13"	1.18"	0.19"	5.20"	4.57"	0.31"	1/4"	0.87"

Size	Weight	A	B	C	E	G	S	W
SAE-4 2-1/2"	0.51 lbs	2.5"	2.41"	1.23"	0.51"	2.41"	0.24"	0.55"

- "A" nominal size
- T = 7/16" - 20° SAE Connection, Supplied with Viton o-ring, hex nut, and washer

SPECIFICATIONS

All gauges are a one piece design.

Socket	Copper alloy
Case	Black steel
Bourdon Tube	Circular in copper alloy up to 600 PSI Helical above 900 PSI
Movement	Copper alloy
Window	Acrylic
Dial	White plastic, black scale
Pointer	Black ABS plastic
Connection	Bottom (Model A); Center back (Model D)
Standard Threads	1/4" NPT - 1/8" NPT on some sizes
Accuracy	Class 1.6 - 2.5 ANSI B40.1 Grade B
Temperature Range	Ambient: -40°C to 60°C, media: max 60°C
Pressure Utilization	Static 75% max. scale; Dynamic 66% max. scale
Protection Degree	IP 43
Scale	Concentric 270° PSI/Bar

Custom gauges available, please contact Tech-Hydro

DIMENSIONS

*A" nominal size

Bottom Mount



Center Back



Size	Weight	A	B	C	D	E	G	T	W
1-1/2"	0.16 lbs.	1.57"	1.42"	1.61"	1.61"	0.31"	1.83"	1" or 1/4" NPT	0.55"
2"	0.22 lbs.	1.97"	1.77"	1.06"	1.93"	0.39"	1.87"	1" or 1/4" NPT	0.55"
2-1/2"	0.29 lbs.	2.48"	2.11"	1.1"	2.42"	0.39"	1.89"	1" or 1/4" NPT	0.55"

¹ For gauges with 1/8" NPT connections, subtract 0.08 inches from "G" dimension.

² For 1 1/2" LM gauges with 1/8" NPT connection, "W" dimension also changes to 0.47".

ORDERING INFORMATION

TH-	MPD	1	P	30	A	1/4"
	Dry gauge model	Diameter 1 - 2-1/2" 3 - 2" 4 - 1-1/2"	Type P - Pressure	Pressure range (PSI) ✓ denotes availability by size PSI 1-1/2" 2" 2-1/2" 30 ✓ ✓ ✓ 60 ✓ ✓ ✓ 100 ✓ ✓ ✓ 160 ✓ ✓ ✓ 200 ✓ ✓ ✓ 300 ✓ ✓ ✓ 600 ✓ ✓ ✓ 1000 ✓ ✓ ✓ 2000 ✓ ✓ ✓ 3000 ✓ ✓ ✓ 4000 ✓ ✓ ✓ 5000 ✓ ✓ ✓	Connection A - Bottom D - Center back	Thread 1/4" - 1/4" NPT 1/8" - 1/8" NPT * Available for 1-1/2" and 2" back mount gauges only

Additional options are available. Please contact Tech-Hydro Industries for details.



TH-MPD



MODEL MPG

SPECIFICATIONS

All gauges are a one piece design.

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
Pointer	Black enamelled aluminium
Mounting	Model E: Front flange with 3 mounting holes Model B: With special ring and back clamp.

DESCRIPTION

Our MPG series is a high quality line of glycerin filled 2 1/2" and 4" pressure gauges typically used in hydraulic and pneumatic systems where vibration and pulsation are present. The glycerin is used to keep the internal parts lubricated, keeps contamination away from the moving parts and helps reduce vibration and shock. Available in vacuum through 10,000psi.

Connection	Bottom (Model A) Center back (Model D) 2 1/2". Lower back 4"
Standard Threads	1/4 NPT and SAE -4
Filling Liquid	Glycerine fluid
Accuracy	1.5% of span
Temperature Range	Between -20°C 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

Custom gauges available, please contact Tech-Hydro.

ORDERING INFORMATION

TH-	MPG	1	V	30	A	N
Liquid-filled gauge model	Diameter 1 - 2-1/2" 2 - 4"	Type V - Vacuum C - Compound P - Pressure	Pressure range 30/0 - 30 in.Hg/0 psi 30/30 - 30 in.Hg/30 psi 30 - 30 psi 60 - 60 psi 100 - 100 psi 160 - 160 psi 200 - 200 psi 300 - 300 psi 600 - 600 psi 1000 - 1000 psi 1500 - 1500 psi 2000 - 2000 psi 3000 - 3000 psi 4000 - 4000 psi 5000 - 5000 psi 6000 - 6000 psi 10000 - 10000 psi	Style A - Bottom stem B - Panel clamp** D - Center back (Not available on 4" gauge) E - Panel flange** (Not available on 4" gauge) * Panel flange and clamp may be ordered separately to fit "D" style gauge 2-1/2" model only. Part Number: MPG-1-E - Flange MPG-1-B - Clamp	Thread N - 1/4" NPT S - SAE-4	

TH10

SERIES

TH10 TH10 TH10
TH10 TH10

003

MODEL(TORQUE/100)

TH10: 002, 003, 006, 010, 016, 027
TH20: 005, 009, 016, 027, 042
TH30: 019, 028, 047, 073, 105, 140, 180, 240
TH40: 028, 050, 067
TH50: Customized, 006~240

360

ROTATION

TH10: 180°, 360°
TH20: 180°
TH30: 180°, 360°
TH40: 200°, 220°
TH50: 110°, 134°, 180°
TH-002: 180° only

Q

OUTPUT MODE

TH10: Q- Front Flange
TH20: Q- Front Flange | S-Double Flanges
TH30: Q- Front Flange | S-Double Flanges
TH40: Z- Shaft Output | H- Spindle
TH50: Customized

H

MOUNTING OPTIONS

TH10: H- Rear Flange
TH20: D- Foot
TH30: D- Foot | H- Rear Flange | Q- Front Flange
TH40: D- Foot
TH50: Welded, Screw connected

Y

VALVE OPTIONS

Y: Counterbalance Valve
W: No Valve

J

SEALS

J: Standard
D: Low Temp
G: High Temp

E

MEASUREMENT SYSTEM

E: Imperial
M: Metric
D: Customized

The model codes information is for your ordering reference only. The model codes defines standard configurations of Ningbo Tech-Hydro Co. Ltd. For special requirements, please contact us.

CANTILEVER MOUNT

The load works on one side flange of actuator only. This type is not recommended for aerial work platforms or other critical and safety-related applications.

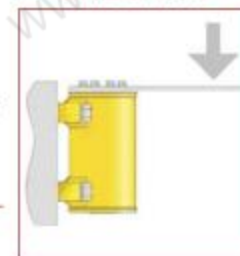
STRADDLE MOUNT

The load is supported by flanges from both sides.

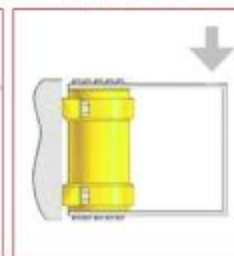
OTHERS

Rail mount, Clevis mount or any customized mount.

CANTILEVER MOUNT



STRADDLE MOUNT



RAIL MOUNT



CLEVIS MOUNT



COUNTER BALANCE VALVE

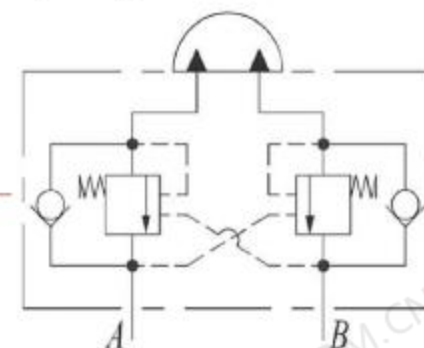
The counterbalance valve protects rotation in the event of a hydraulic line failure and protect the actuator against excessive torque loading.

TH10, TH20 AND TH40 SERIES:

Pressure 228 bar, pilot ratio 3:1

TH30 SERIES:

Pressure 250 bar, pilot ratio 3:1



Insert Specifications

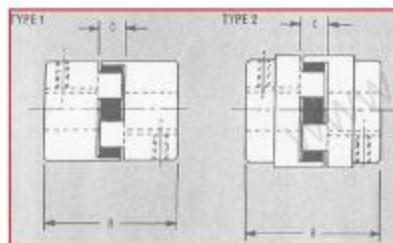
- Materials: Rubber (Buna-N), Hytrel, Urethane
- Max Misalignment: Angular: 1°
Parallel: 0.015"
- Temperature: Buna-N: -40° F to 212° F
Hytrel: -60° F to 250° F
Urethane: -30° F to 160° F

HUB Specifications

- Material: TH-L075 - L150: Sintered Iron (S.I.)
TH-L190 - L225: Iron (C.I.)

Coupling Dimensions & Specifications

Coupling Number	Type	Dimensions in.		Bore Weight lb	
		C	B	Min	Max
TH-L075	1	1/2	2-1/8	1.0	0.8
TH-L095	1	1/2	2-1/2	1.8	1.3
TH-L100	1	3/4	3-1/2	3.5	2.5
TH-L110	1	7/8	4-1/4	6.6	5.0
TH-L150	1	1	4-1/2	9.1	7.0
TH-L190	2	1	4-7/8	17.3	13.0
TH-L225	2	1	5-3/8	23.0	18.0



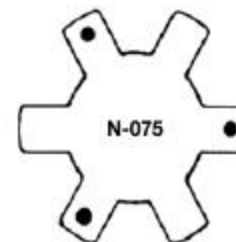
- Torque - Horsepower Ratings for Buna-N Insert:

Coupling Number	Max. Bore	Torque in Lbs	HP/100 RPM	HP/Speeds (RPM)			
				900	1200	1800	3600
TH-L075	7/8	88.0	0.140	1.26	1.68	2.51	5.03
TH-L095	1-1/8	189.0	0.300	2.70	3.60	5.40	10.80
TH-L100	1-3/8	416.0	0.660	5.94	7.92	11.88	23.76
TH-L110	1-5/8	788.0	1.250	11.25	15.00	22.51	45.01
TH-L150	1-7/8	1260.0	1.999	17.99	23.99	35.99	71.97
TH-L190	2-1/8	1700.0	2.697	24.28	32.37	48.55	97.10
TH-L225	2-3/8	2330.0	3.697	33.27	44.36	66.55	133.09

STOCK BORE SIZES

Bore	Key	L075	L095	L100	L110	L150	L190	L225
3/8	1/8" x 1/16"							
7/16	3/32" x 3/64"							
7/16	1/8" x 1/16"		9Q01200	9Q02200				
1/2	1/8" x 1/16"	9Q00500	9Q01300	9Q02300				
9/16	1/8" x 1/16"	9Q00550	9Q01350	9Q02350				
5/8	5/32" x 5/64"	9Q00900	9Q01900	9Q03100	9Q04300	9Q04590		
5/8	3/16" x 3/32"	9Q00600	9Q01400	9Q02400	9Q03400	9Q04600		
3/4	3/16" x 3/32"	9Q00700	9Q01500	9Q02500	9Q03500	9Q04700	9Q05761	
7/8	3/16" x 3/32"	9Q00800	9Q01600	9Q02600	9Q03600	9Q04800	9Q05765	9Q06000
7/8	1/4" x 1/8"		9Q02000	9Q03200	9Q04400	9Q05700	9Q05763	9Q06050
1	1/4" x 1/8"		9Q01700	9Q02700	9Q03700	9Q04900	9Q05764	9Q06100
1-1/8	1/4" x 1/8"		9Q01800	9Q02800	9Q03800	9Q05000	9Q05772	9Q06200
1-1/4	1/4" x 1/8"			9Q02900	9Q03900	9Q05100	9Q05766	9Q06300
1-1/4	5/16" x 5/32"			9Q03250	9Q04450	9Q05750	9Q05767	9Q07400
1-3/8	5/16" x 5/32"			9Q03000	9Q04000	9Q05200	9Q05769	9Q07450
1-1/2	3/8" x 3/16"				9Q04100	9Q05300	9Q05768	9Q06500
1-5/8	3/8" x 3/16"				9Q04200	9Q05400	9Q05770	9Q06600
1-3/4	3/8" x 3/16"					9Q05500	9Q05780	9Q06650
1-7/8	1/2" x 1/4"					9Q05600	9Q05785	9Q06800
2	1/2" x 1/4"						9Q05790	9Q06900
2-1/8	1/2" x 1/4"						9Q05795	9Q07000
2-1/4	1/2" x 1/4"							9Q07100
2-3/8	5/8" x 5/16"							9Q07200

REPLACEMENT INSERTS



- Raised dots on each side of the cushion insert provide the correct pre-measured gap between the jaw and spider.

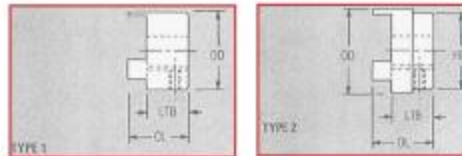
Series	Nitrile Inserts	Hytrel Inserts	Urethane Inserts
TH-L075	N-075	H-075	U-075
TH-L095	N-095	H-095	U-095
TH-L100	N-100	H-100	U-100
TH-L110	N-110	H-110	U-110
TH-L150	N-150	H-150	U-150
TH-L190	N-190	H-190	U-190
TH-L225	N-225	H-225	U-225

BORE TOLERANCE

Bore Tolerances

Up to 1-7/16	+0.015/-0.000
Over 1-1/2	+0.002/-0.000

HUB DIMENSIONS AND SPECIFICATIONS

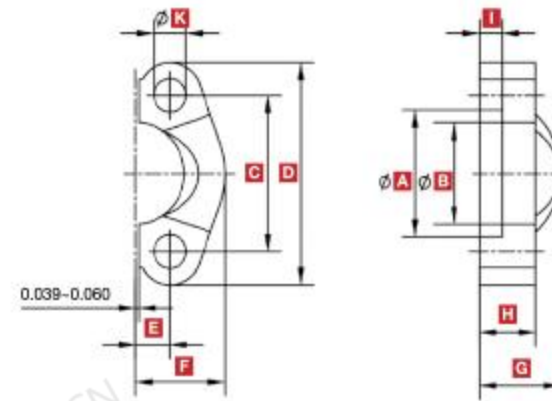


HUB Number	Hub		Dimensions				Bore Range		Hub Weight Bores	
	Mat'l	Type	OD	HD	LT B	OL	Min	Max	Min	Max
TH-L075	S.I.	1	1-3/4	-	13/16	1-9/32	1/4	7/8	0.50	0.40
TH-L095	S.I.	1	2-7/64	-	1	1-29/64	7/16	1-1/8	0.90	0.65
TH-L100	S.I.	1	2-17/32	-	1-3/8	2-3/64	7/16	1-3/8	1.75	1.25
TH-L110	S.I.	1	3-5/16	-	1-11/16	2-31/64	5/8	1-5/8	3.20	2.40
TH-L150	S.I.	1	3-3/4	-	1-3/4	2-11/16	5/8	1-7/8	4.50	3.40
TH-L190	C.I.	2	4-1/2	4	1-15/16	2-57/64	3/4	2-1/8	8.20	6.20
TH-L225	C.I.	2	5	4-1/4	2-3/16	3-7/64	3/4	2-3/8	11.10	8.60

ORDERING INFORMATION

- Order by code from chart below or by Tech-Hydro part number from chart

TH- L100	1-1/8" x 1/4"	5/8 x 5/32
Series	Electric Motor Half	Pump Half
TH-L075	Prime Mover, Shaft Bore/Key	Pump Shaft, Bore/Key
TH-L095		
TH-L100		
TH-L110		
TH-L150		
TH-L190		
TH-L225		



TECH-HYDRO KIT INCLUDES:

- 2 Split flange halves
- 4 Hex head screws with lock washers
- 1 Buna O-Ring

SIZE (in.)	KIT PART NO.	DIMENSIONS (in.)										MOUNTING HARDWARE		WT (lbs)	MAX WP (psi)
		A	B	C	D	E	F	G	H	I	K	O-RING	HHCS		
CODE 61 SPLIT FLANGE															
1/2"	TH-F8SFO	1.22	0.96	1.50	2.13	0.34	0.91	0.75	0.51	0.24	0.33	210	5/16-18X1.25	0.15	4980
3/4"	TH-F12SFO	1.53	1.26	1.88	2.56	0.44	1.02	0.87	0.56	0.24	0.41	214	3/8-16X1.25	0.22	4980
1"	TH-F16SFO	1.78	1.53	2.06	2.76	0.52	1.16	0.94	0.63	0.30	0.41	219	3/8-16X1.25	0.26	4480
1-1/4"	TH-F20SFO	2.04	1.72	2.31	3.11	0.59	1.44	0.87	0.55	0.30	0.47	222	7/16-14X1.50	0.35	3560
1-1/2"	TH-F24SFO	2.41	2.00	2.75	3.66	0.70	1.63	0.98	0.63	0.30	0.53	225	1/2-13X1.50	0.55	2840
2"	TH-F32SFO	2.84	2.47	3.06	4.02	0.84	1.91	1.02	0.63	0.35	0.53	228	1/2-13X1.50	0.60	2840
2-1/2"	TH-F40SFO	3.34	2.95	3.50	4.49	1.00	2.13	1.50	0.75	0.35	0.53	232	1/2-13X1.75	0.93	2280
3"	TH-F48SFO	4.03	3.58	4.19	5.28	1.22	2.58	1.61	0.87	0.35	0.67	237	5/8-11X1.75	1.37	1960
3-1/2"	TH-F56SFO	4.53	4.03	4.75	5.98	1.38	2.76	1.10	0.87	0.42	0.67	241	5/8-11X2.00	1.57	500
4"	TH-F64SFO	5.03	4.53	5.13	6.38	1.53	2.99	1.38	0.98	0.42	0.67	245	5/8-11X2.00	1.79	500
5"	TH-F80SFO	6.43	5.53	6.00	7.24	1.81	3.56	1.61	1.10	0.42	0.67	253	5/8-11X3.00	2.54	500
CODE 62 SPLIT FLANGE															
1/2"	TH-F8SFXD	1.28	0.97	1.59	2.20	0.36	0.94	0.87	0.63	0.28	0.33	210	5/16-18X1.25	0.20	5690
3/4"	TH-F12SFXD	1.66	1.28	2	2.80	0.47	1.18	1.10	0.75	0.32	0.41	214	3/8-16X1.50	0.37	5690
1"	TH-F16SFXD	1.91	1.53	2.25	3.19	0.55	1.38	1.30	0.94	0.35	0.47	219	7/16-14X1.75	0.60	5690
1-1/4"	TH-F20SFXD	2.16	1.75	2.63	3.74	0.63	1.54	1.50	1.06	0.39	0.53	222	1/2-13X1.75	0.88	5690
1-1/2"	TH-F24SFXD	2.53	2.03	3.13	4.41	0.72	1.87	1.69	1.18	0.47	0.67	225	5/8-11X2.25	1.50	5690
2"	TH-F32SFXD	3.16	2.66	3.81	5.28	0.88	2.24	2.05	1.46	0.47	0.83	228	3/4-10X2.75	2.31	5690

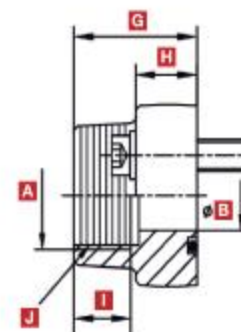
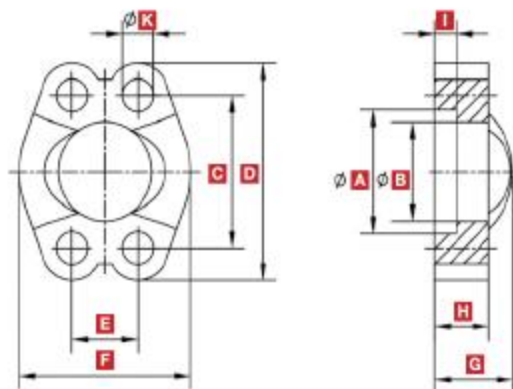
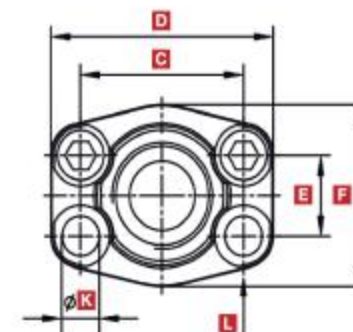
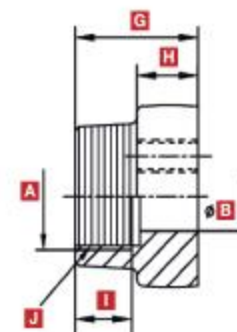
O-RING
Fig 1

Fig 1

Fig 2

FLAT FACE
Fig 2

O-Ring flange includes:
O-Ring, 4 bolts and
lock washers.

SIZE (in.)	DRILLED PART NO.	TAPPED PART NO.	DIMENSIONS (in.)											WT (lbs)	MAX WP (psi)
			A	B	C	D	E	F	G	H	I	K (DRILLED)	K (TAPPED)		
CODE 61 CAPTIVE FLANGE															
1/2"	TF-F8SFW	TF-F8SFTW	1.22	0.96	1.50	2.13	0.69	1.81	0.75	0.51	0.24	0.33	5/16-18	0.31	4980
3/4"	TF-F12SFW	TF-F12SFTW	1.53	1.26	1.88	2.56	0.88	2.05	0.87	0.56	0.24	0.41	3/8-16	0.42	4980
1"	TF-F16SFW	TF-F16SFTW	1.78	1.53	2.06	2.76	1.04	2.32	0.94	0.63	0.30	0.41	3/8-16	0.49	4480
1-1/4"	TF-F20SFW	TF-F20SFTW	2.04	1.72	2.31	3.11	1.19	2.87	0.87	0.55	0.30	0.47	7/16-14	0.68	3560
1-1/2"	TF-F24SFW	TF-F24SFTW	2.41	2.00	2.75	3.66	1.41	3.27	0.98	0.63	0.30	0.53	1/2-13	1.08	2840
2"	TF-F32SFW	TF-F32SFTW	2.84	2.47	3.06	4.02	1.69	3.82	1.02	0.63	0.35	0.53	1/2-13	1.17	2840
2-1/2"	TF-F40SFW	TF-F40SFTW	3.34	2.95	3.50	4.49	2.00	4.29	1.50	0.75	0.35	0.53	1/2-13	1.79	2280
3"	TF-F48SFW	TF-F48SFTW	4.03	3.58	4.19	5.28	2.44	5.16	1.61	0.87	0.35	0.67	5/8-11	2.69	1960
3-1/2"	TF-F56SFW	TF-F56SFTW	4.53	4.03	4.75	5.98	2.75	5.51	1.10	0.87	0.42	0.67	5/8-11	3.11	500
4"	TF-F64SFW	TF-F64SFTW	5.03	4.53	5.13	6.38	3.06	5.98	1.38	0.98	0.42	0.67	5/8-11	3.57	500
5"	TF-F80SFW	TF-F80SFTW	6.43	5.53	6.00	7.24	3.63	7.13	1.61	1.10	0.42	0.67	5/8-11	5.07	500
CODE 62 CAPTIVE FLANGE															
1/2"	TF-F8SFXW	TF-F8SFTXW	1.28	0.97	1.59	2.20	0.72	1.89	0.87	0.63	0.28	0.33	5/16-18	0.40	5690
3/4"	TF-F12SFXW	TF-F12SFTXW	1.66	1.28	2	2.80	0.94	2.36	1.10	0.75	0.32	0.41	3/8-16	0.75	5690
1"	TF-F16SFXW	TF-F16SFTXW	1.91	1.53	2.25	3.19	1.09	2.76	1.30	0.94	0.35	0.47	7/16-14	1.28	5690
1-1/4"	TF-F20SFXW	TF-F20SFTXW	2.16	1.75	2.63	3.74	1.25	3.07	1.50	1.06	0.39	0.53	1/2-13	1.70	5690
1-1/2"	TF-F24SFXW	TF-F24SFTXW	2.53	2.03	3.13	4.41	1.44	3.74	1.69	1.18	0.47	0.67	5/8-11	2.98	5690
2"	TF-F32SFXW	TF-F32SFTXW	3.16	2.66	3.61	5.28	1.75	4.49	2.05	1.46	0.47	0.83	3/4-10	4.65	5690

SIZE (in.)	O-RING PART NO. Fig 1	FLAT FACE PART NO. Fig 2	DIMENSIONS (in.)												MOUNTING HARDWARE		WT (lbs)	MAX WP (psi)
			A	B	C	D	E	F	G	H	I	J	K	L UNC-2B	O-RING	SHCS		
CODE 61 NPTF THREAD																		
1/2"	TF-F8-8-U	TF-F104-8-8	NPT 1/2"	0.51	1.50	2.13	0.69	1.81	1.42	0.63	0.75	1/2-14	0.35	5/16-18	210	5/16-18X1.25	0.55	4980
3/4"	TF-F12-12-U	TF-F104-12-12	NPT 3/4"	0.75	1.88	2.56	0.88	1.97	1.42	0.71	0.75	3/4-14	0.43	3/8-16	214	3/8-16X1.50	0.85	4080
1"	TF-F16-16-U	TF-F104-16-16	NPT 1"	0.98	2.06	2.76	1.03	2.17	1.50	0.71	0.87	1-11.5	0.43	3/8-16	219	3/8-16X1.50	1.08	4480
1-1/4"	TF-F20-20-U	TF-F104-20-20	NPT 1-1/4"	1.26	2.31	3.11	1.19	2.68	1.61	0.83	0.87	1-1/4-11.5	0.45	7/16-14	222	7/16-14X1.75	1.57	3560
1-1/2"	TF-F24-24-U	TF-F104-24-24	NPT 1-1/2"	1.50	2.75	3.66	1.41	3.07	1.77	0.98	0.94	1-1/2-11.5	0.53	1/2-13	225	1/2-13X1.75	2.49	2840
2"	TF-F32-32-U	TF-F104-32-32	NPT 2"	2.01	3.06	4.02	1.69	3.54	1.77	0.98	1.18	2-11.5	0.53	1/2-13	228	1/2-13X1.75	2.87	2840
2-1/2"	TF-F40-40-U	TF-F104-40-40	NPT 2-1/2"	2.48	3.50	4.49	2.00	4.13	1.97	0.98	1.18	2-1/2-8	0.53	1/2-13	232	1/2-13X1.75	3.97	2280
3"	TF-F48-48-U	TF-F104-48-48	NPT 3"	2.87	4.19	5.28	2.44	4.88	1.97	1.06	1.34	3-8	0.67	5/8-11	237	5/8-11X2.00	5.07	1960
CODE 62 NPTF THREAD																		
1/2"	TF-F8-8-U	TF-F8-8-8	NPT 1/2"	0.51	1.50	2.20	0.72	1.89	1.42	0.63	0.75	1/2-14	0.35	5/16-18	210	5/16-18X1.25	0.66	5690
3/4"	TF-F12-12-U	TF-F8-12-12	NPT 3/4"	0.75	2.00	2.80	0.94	2.17	1.38	0.83	0.87	3/4-14	0.43	3/8-16	214	3/8-16X1.50	0.79	5690
1"	TF-F16-16-U	TF-F8-16-16	NPT 1"	0.98	2.25	3.19	1.09	2.56	1.65	0.98	0.87	1-11.5	0.51	7/16-14	219	7/16-14X1.75	1.87	5690
1-1/4"	TF-F20-20-U	TF-F8-20-20	NPT 1-1/4"	1.26	2.63	3.74	1.25	3.07	1.77	1.06	0.98	1-1/4-11.5	0.59	1/2-13	222	1/2-13X1.75	2.67	5690
1-1/2"	TF-F24-24-U	TF-F8-24-24	NPT 1-1/2"	1.50	3.13	4.41	1.44	3.70	1.97	1.18	1.10	1-1/2-11.5	0.67	5/8-11	225	5/8-11X2.25	4.19	5690
2"	TF-F32-32-U	TF-F8-32-32	NPT 2"	2.01	3.81	5.28	1.75	4.49	2.56	1.46	1.26	2-11.5	0.83	3/4-10	228	3/4-10X2.75	7.50	5690

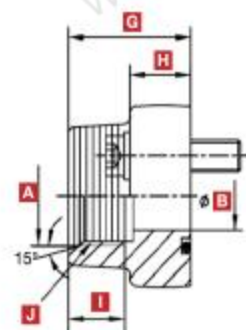
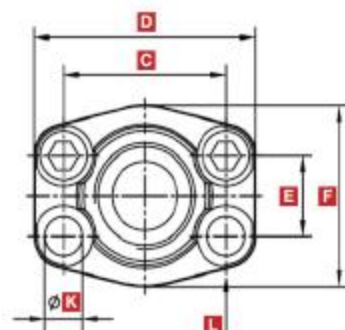
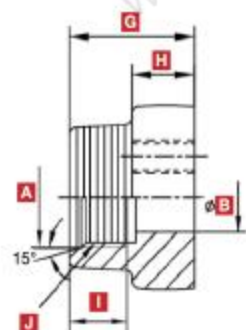
O-RING
Fig 1

Fig 1

Fig 2

FLAT FACE
Fig 2

- O-Ring flange includes:
O-Ring, 4 bolts and
lock washers.

SIZE (in.)	O-RING PART NO. Fig 1	FLAT FACE PART NO. Fig 2	DIMENSIONS (in.)													MOUNTING HARDWARE		WT (lbs)	MAX. WP (psi)
			A	B	C	D	E	F	G	H	I	K	J	L UNC-2B	O-RING	SHCS			
CODE 61 SAE STRAIGHT THREAD																			
1/2"	TF-F46-8-8-U	TF-F106-8-8	3/4"-16UNF	0.51	1.50	2.13	0.69	1.81	1.42	0.63	0.67	0.35	3/4-16	5/16-18	210	5/16-18X1.25	0.57	4980	
3/4"	TF-F46-12-12-U	TF-F106-12-12	1-1/16"-12UN	0.75	1.88	2.56	0.88	1.97	1.42	0.71	0.91	0.43	1-1/16-12	3/8-16	214	3/8-16X1.50	0.79	4980	
1"	TF-F46-16-16-U	TF-F106-16-16	1-5/16"-12UN	0.98	2.06	2.76	1.03	2.17	1.50	0.71	0.91	0.43	1-5/16-12	3/8-16	219	3/8-16X1.50	0.95	4480	
1-1/4"	TF-F46-20-20-U	TF-F106-20-20	1-5/8"-12UN	1.26	2.31	3.11	1.19	2.68	1.61	0.83	0.91	0.45	1-5/8-12	7/16-14	222	7/16-14X1.75	1.41	3560	
1-1/2"	TF-F46-24-24-U	TF-F106-24-24	1-7/8"-12UN	1.50	2.75	3.66	1.41	3.07	1.77	0.98	0.91	0.53	1-7/8-12	1/2-13	225	1/2-13X1.75	2.20	2640	
2"	TF-F46-32-32-U	TF-F106-32-32	2-1/2"-12UN	2.01	3.06	4.02	1.69	3.54	1.77	0.98	0.91	0.53	2-1/2-12	1/2-13	228	1/2-13X1.75	2.51	1000	
2-1/2"	TF-F46-40-40-U	TF-F106-40-40	3"-12UN	2.48	3.50	4.49	2.00	4.13	1.97	0.98	1.18	0.53	3-12	1/2-13	232	1/2-13X1.75	3.53	1000	
3"	TF-F46-48-48-U	TF-F106-48-48	3-1/2"-12UN	2.87	4.19	5.28	2.44	4.88	1.97	1.06	1.34	0.67	3-1/2-12	5/8-11	237	5/8-11X2.00	5.07	1000	
4"	TF-F46-64-64-U	TF-F106-64-64	4-1/2"-12UN	3.90	5.13	6.38	3.06	5.75	1.89	1.06	1.34	0.67	4-1/2-12	5/8-11	245	5/8-11X2.00	6.39	1000	
CODE 62 SAE STRAIGHT THREAD																			
1/2"	TF-F46-8-8-U	TF-F46-8-8	3/4"-16UNF	0.51	1.59	2.20	0.72	1.89	1.42	0.63	0.67	0.35	3/4-16	5/16-18	210	5/16-18X1.25	0.68	5690	
3/4"	TF-F46-12-12-U	TF-F46-12-12	1-1/16"-12UN	0.75	2.00	2.80	0.94	2.17	1.38	0.83	0.91	0.43	1-1/16-12	3/8-16	214	3/8-16X1.50	1.10	5690	
1"	TF-F46-16-16-U	TF-F46-16-16	1-5/16"-12UN	0.98	2.25	3.19	1.09	2.56	1.65	0.98	0.91	0.51	1-5/16-12	7/16-14	219	7/16-14X1.75	1.72	5690	
1-1/4"	TF-F46-20-20-U	TF-F46-20-20	1-5/8"-12UN	1.26	2.63	3.74	1.25	3.07	1.77	1.06	0.91	0.59	1-5/8-12	1/2-13	222	1/2-13X1.75	2.54	5690	
1-1/2"	TF-F46-24-24-U	TF-F46-24-24	1-7/8"-12UN	1.50	3.13	4.41	1.44	3.70	1.97	1.18	0.91	0.67	1-7/8-12	5/8-11	225	5/8-11X2.25	4.01	5690	
2"	TF-F46-32-32-U	TF-F46-32-32	2-1/2"-12UN	2.01	3.61	5.28	1.75	4.49	2.56	1.46	0.91	0.83	2-1/2-12	3/4-10	228	3/4-10X2.75	6.86	5690	

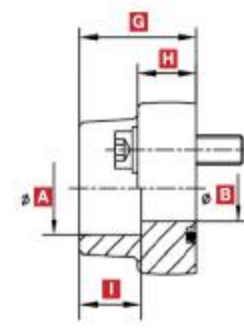
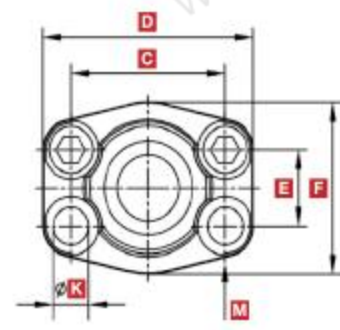
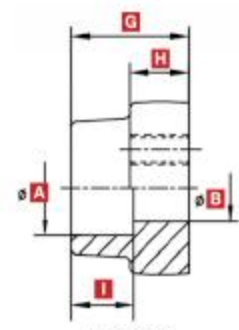
O-RING
Fig 1

Fig 1

Fig 2

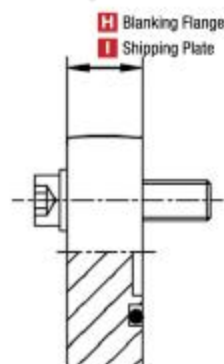
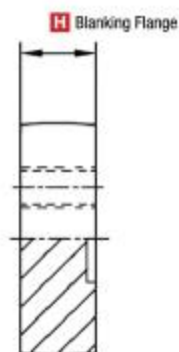
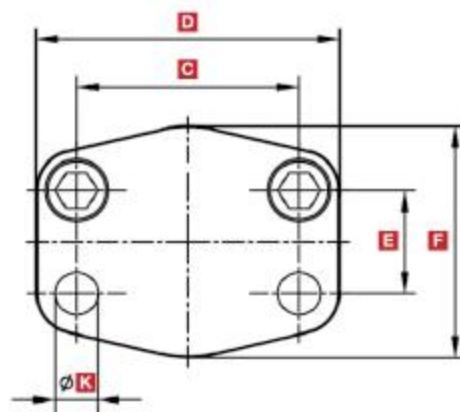




Memo No. _____

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O-RING
Fig 1FLAT FACE
Fig 2

SIZE (in.)	O-RING PART NO. Fig 1	FLAT FACE PART NO. Fig 1 to 2	O-PSI SHIPPING PLATE O-RING KIT PART NO.	DIMENSIONS (in.)							MOUNTING HARDWARE		WT (lbs)	MAX WP (psi)
				C	D	E	F	H	I	K	O-RING	SHCS		
CODE 61														
1/2"	TM-F36-8-8-U	TM-F37-8-8	TM-FSP-8-U	1.50	2.13	0.69	1.81	0.63	0.32	0.35	210	5/16-18X1.50	0.53	4980
3/4"	TM-F36-12-12-U	TM-F37-12-12	TM-FSP-12-U	1.88	2.56	0.88	1.97	0.63	0.32	0.43	214	3/8-16X1.50	0.66	4980
1"	TM-F36-16-16-U	TM-F37-16-16	TM-FSP-16-U	2.06	2.76	1.03	2.36	0.75	0.32	0.43	219	3/8-16X1.75	0.99	4480
1-1/4"	TM-F36-20-20-U	TM-F37-20-20	TM-FSP-20-U	2.31	3.11	1.19	2.68	0.71	0.32	0.45	222	7/16-14X1.75	1.32	3560
1-1/2"	TM-F36-24-24-U	TM-F37-24-24	TM-FSP-24-U	2.75	3.66	1.41	3.07	0.79	0.32	0.53	225	1/2-13X2.25	1.83	2840
2"	TM-F36-32-32-U	TM-F37-32-32	TM-FSP-32-U	3.06	4.02	1.69	3.54	0.79	0.32	0.53	228	1/2-13X2.50	2.56	2840
2-1/2"	TM-F36-40-40-U	TM-F37-40-40	TM-FSP-40-U	3.50	4.49	2.00	4.13	0.79	0.32	0.53	232	1/2-13X2.75	3.09	2130
3"	TM-F36-48-48-U	TM-F37-48-48	TM-FSP-48-U	4.19	5.28	2.44	4.88	0.94	0.32	0.69	237	5/8-11X3.50	5.18	1960
3-1/2"	TM-F36-56-56-U	TM-F37-56-56	TM-FSP-56-U	4.75	5.98	2.75	5.35	0.87	0.32	0.69	241	5/8-11X2.75	7.05	500
4"	TM-F36-64-64-U	TM-F37-64-64	TM-FSP-64-U	5.13	6.38	3.06	5.75	0.98	0.32	0.69	245	5/8-11X2.75	8.38	500
5"	TM-F36-80-80-U	TM-F37-80-80	TM-FSP-80-U	6.00	7.48	3.63	6.69	1.10	0.32	0.69	253	5/8-11X3.00	9.26	500
CODE 62														
1/2"	TM-F38-8-8-U	TM-F39-8-8	TM-FSPX-8-U	1.59	2.20	0.72	1.89	0.63	0.32	0.35	210	5/16-18X2.00	0.55	5690
3/4"	TM-F38-12-12-U	TM-F39-12-12	TM-FSPX-12-U	2.00	2.80	0.94	2.36	0.75	0.32	0.43	214	3/8-16X2.00	1.06	5690
1"	TM-F38-16-16-U	TM-F39-16-16	TM-FSPX-16-U	2.25	3.19	1.09	2.76	0.94	0.32	0.51	219	7/16-14X2.50	1.70	5690
1-1/4"	TM-F38-20-20-U	TM-F39-20-20	TM-FSPX-20-U	2.63	3.74	1.25	3.07	1.06	0.32	0.59	222	1/2-13X2.50	2.49	5690
1-1/2"	TM-F38-24-24-U	TM-F39-24-24	TM-FSPX-24-U	3.13	4.41	1.44	3.70	1.18	0.32	0.67	225	5/8-11X3.00	3.97	5690
2"	TM-F38-32-32-U	TM-F39-32-32	TM-FSPX-32-U	3.81	5.28	1.75	4.49	1.10	0.32	0.83	228	3/4-10X3.00	5.29	5690
2-1/2"	TM-F38-40-40-U	TM-F39-40-40	TM-FSPX-40-U	4.88	7.09	2.31	5.98	1.77	0.32	1.02	232	7/8-9X3.50	11.68	5690
3"	TM-F38-48-48-U	TM-F39-48-48	TM-FSPX-48-U	6.00	8.19	2.81	7.01	2.17	0.32	1.26	237	1-1/8-7X4.50	19.84	5690