HMC030
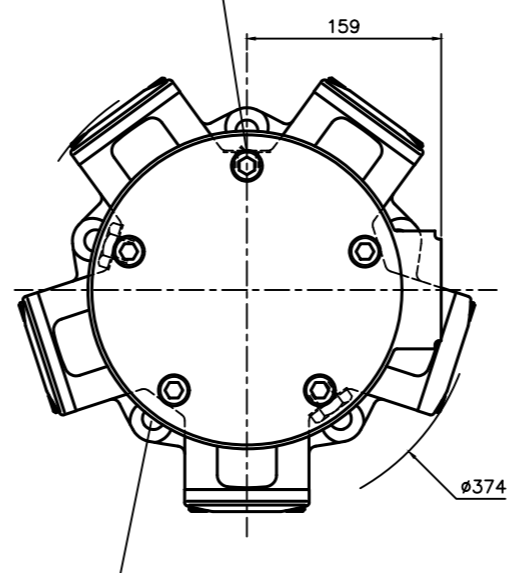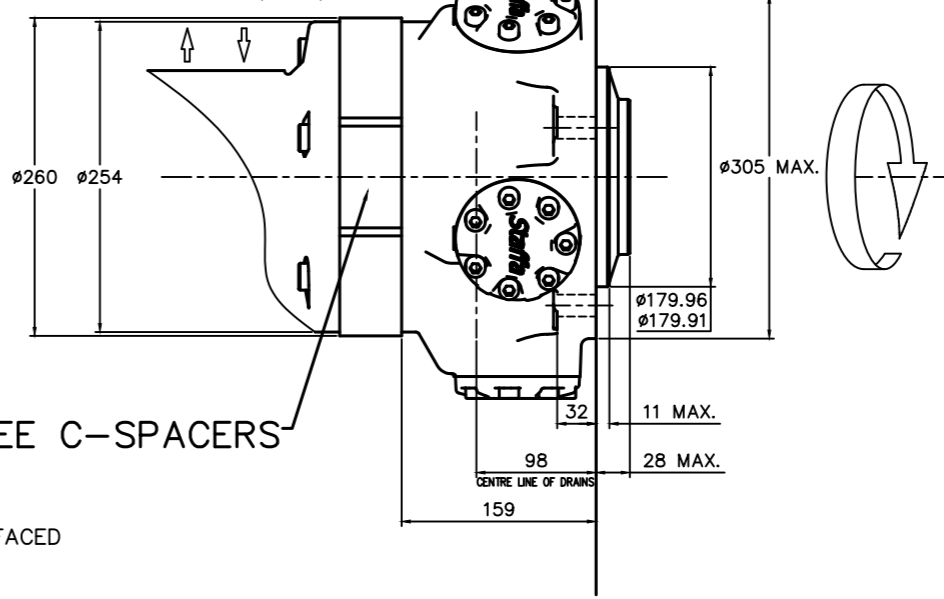
3/8" BSP x 17 FULL THREAD (CHOICE OF 3 POSITIONS)
(2 NORMALLY PLUGGED)

NOTE:— ENSURE ON INSTALLATION THAT DRAIN IS
TAKEN FROM ABOVE MOTOR CENTRELINE.

DO NOT EXCEED 12 DEPTH OF COUPLING
IN TO DRAIN PORT

159

REVERSE PORT CONNECTIONS
FOR OPPOSITE DIRECTION OF
SHAFT ROTATION

FLOW DIRECTION FOR
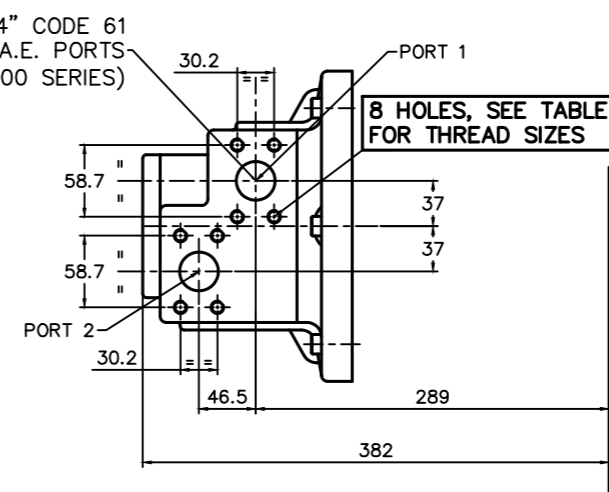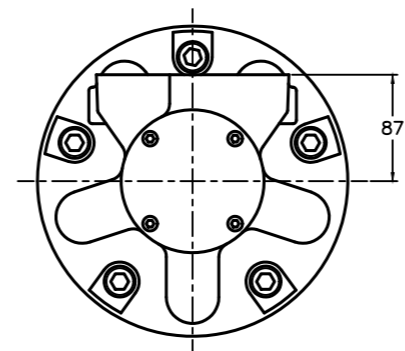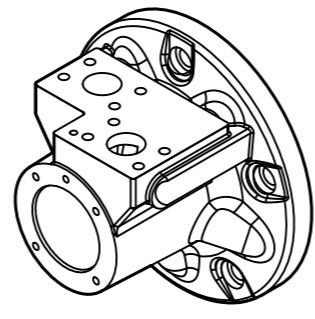ALL VLV HSG VARIANTS
EXCEPT F2/FM2/SM3

CLOCKWISE DIRECTION
OF ROTATION

ø260 ø254

ø305 MAX.

ø179.96
ø179.91

ø374

SEE C—SPACERS

5 HOLES ø18 EQUI—SPACED AS
SHOWN ON A 260.1 P.C.D. SPOTFACED
TO GIVE AN EFFECTIVE ø35.
⊕ ø0.15

32
11 MAX.
28 MAX.
98
CENTRE LINE OF DRAIN
159

VIEWS ON ARROW 'A'

MOUNTING FACE

F3/FM3 —
3" VALVE HOUSING WITH
1 1/4" SAE 4—BOLT FLANGES

PORT FLANGE BOLT TAPPING SIZE —
F3: 7/16"—14 UNC—2B X 27 FULL THREAD DEPTH
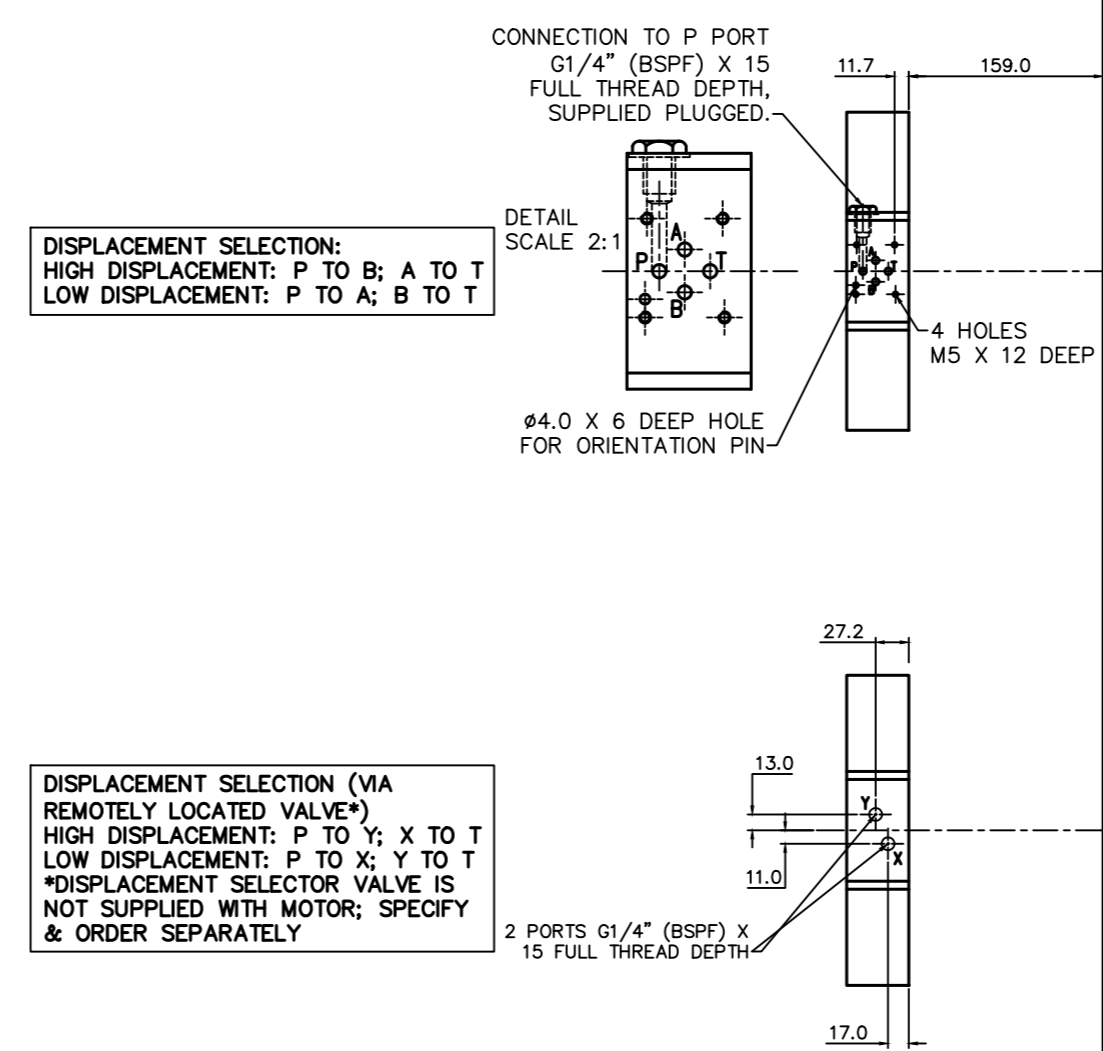FM3: M12 X P1.75 X 27 FULL THREAD DEPTH

1 1/4" CODE 61
S.A.E. PORTS
(3000 SERIES)

'A'

PORT 1

8 HOLES, SEE TABLE
FOR THREAD SIZES

30.2
87
58.7
37
37
58.7
PORT 2
30.2
46.5
289
382

MOUNTING FACE

KEY SUPPLIED—
14.046/14.028 WIDE
9.04/8.96 THICK

'P'

88.1   5
100
ø55.011
ø54.981
49.4
49.3
130.6
128.8
1/2"—20 UNF—2B X 32
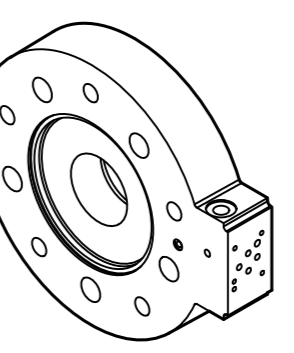FULL THREAD DEPTH
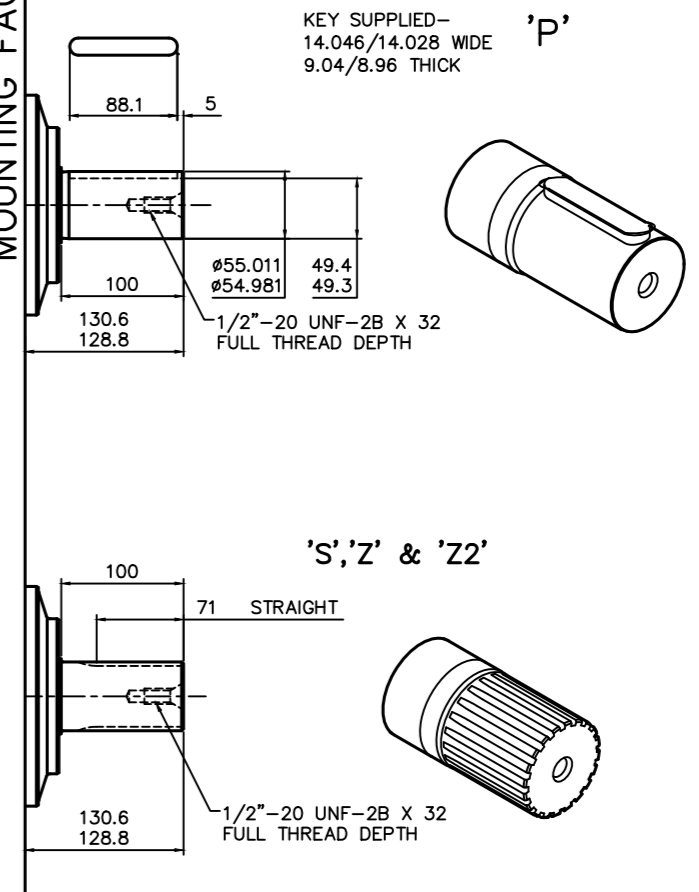
SPLINE DATA

'S'
TO BS 3550 (ANSI B92.1 CLASS 5)
FLAT ROOT SIDE FIT, CLASS 1
PRESSURE ANGLE   30'
NUMBER OF TEETH   17
PITCH   8/16
MAJOR DIAMETER   56.41/56.29
FORM DIAMETER   50.70
MINOR DIAMETER   50.06/49.60
PIN DIAMETER   6.096
DIAMETER OVER PINS   62.984/62.931

'Z'
DIN 5480 W55 x 3 x 17 x 7h

'Z2'
DIN 5480 W60 x 3 x 18 x 7h

'S','Z' & 'Z2'

100
71   STRAIGHT
130.6
128.8
1/2"—20 UNF—2B X 32
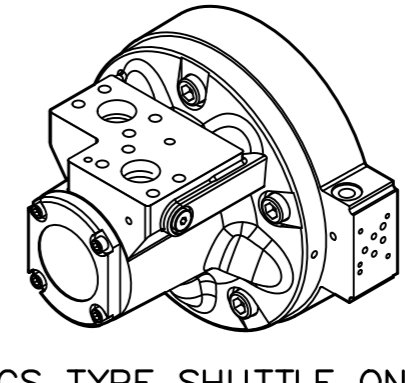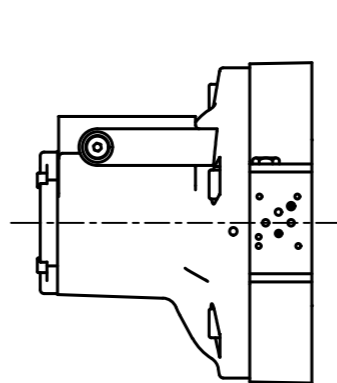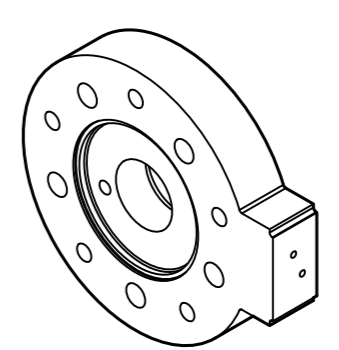FULL THREAD DEPTH

MOUNTING FACE

MOUNTING INTERFACE FOR DIRECTIONAL CONTROL
VALVE* TO: ISO 4401 SIZE 03/ANSI B93.7M SIZE D03
*DISPLACEMENT SELECTOR VALVE IS NOT SUPPLIED
WITH MOTOR; SPECIFY & ORDER SEPARATELY

TYPES C & CS
DISPLACEMENT CONTROL

CONNECTION TO P PORT
G1/4" (BSPF) X 15
FULL THREAD DEPTH,
SUPPLIED PLUGGED.

11.7   159.0

DETAIL
SCALE 2:1

DISPLACEMENT SELECTION:
HIGH DISPLACEMENT: P TO B; A TO T
LOW DISPLACEMENT: P TO A; B TO T

4 HOLES
M5 X 12 DEEP

ø4.0 X 6 DEEP HOLE
FOR ORIENTATION PIN

TYPE X
DISPLACEMENT CONTROL

27.2
13.0
11.0

DISPLACEMENT SELECTION (VIA
REMOTELY LOCATED VALVE*)
HIGH DISPLACEMENT: P TO Y; X TO T
LOW DISPLACEMENT: P TO X; Y TO T
*DISPLACEMENT SELECTOR VALVE IS
NOT SUPPLIED WITH MOTOR; SPECIFY
& ORDER SEPARATELY

2 PORTS G1/4" (BSPF) X
15 FULL THREAD DEPTH

17.0

CS TYPE SHUTTLE ON
F3 & FM3 ASSEMBLIES
ONLY